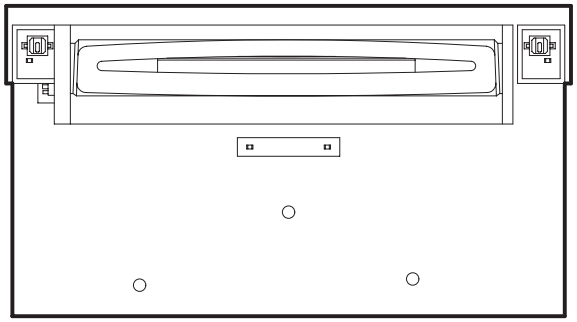
Clarion

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Service Manual



NISSAN Genuine (BOSE Type)
Cockpit Module
AM/FM Radio Stereo
6-CD Changer Deck

Model PN-2701B-A
(Genuine No. 28185 EH200)
(Xanavi Genuine No. CD6K-1210U)

Model PN-2702B-A
(Genuine No. 28185 EH500)
(Xanavi Genuine No. CD6K-1600C)

DIFFERENCE FEATURE LIST

Model No.	Destination
PN-2701B-A	North America
PN-2702B-A	China

SPECIFICATIONS

Radio section

Tuning system:	PLL frequency synthesizer system
PN-2701B-A	AM 530kHz to 1,710kHz
	FM 87.75Hz to 107.9MHz
PN-2702B-A	AM 531kHz to 1,602kHz
	FM 87.5Hz to 108.0MHz
Intermediate frequency:	
	AM 450kHz
	FM 10.7MHz
Quieting sensitivity:	AM Less than 37dBu(at 20dB S/N)
	FM Less than 15dBu
	(at 30dB S/N : MAIN ANT)
	FM Less than 15dBu
	(at 30dB S/N : SUB ANT)
Separation:	FM 22 +5/-7 dB(1kHz)
S/N ratio:	AM More than 40dB
	FM More than 50dB

CD section

Disc:	12cm Disc
Format:	CD-DA, MP3, WMA
MP3 Sampling rate:	MPEG1; 32kHz, 44.1kHz, 48kHz
	MPEG2; 16kHz, 22.05kHz, 24kHz
	MPEG3; 8kHz, 11.025kHz, 12kHz
MP3 Bit rate:	MPEG1; 48k to 320kbps/VBR
	MPEG2; 24k to 160kbps/VBR
	MPEG3; 24k to 160kbps/VBR
WMA Bit rate:	64k to 192kbps
Logical Format:	ISO9660 level1, 2
	Romeo or Joliet
Separation:	More than 60dB(20kHz L.P.F.)
S/N ratio:	More than 80dB(20kHz, JIS-A)
Disortion:	Less tahn 0.1%(20kHz, L.P.F.)

General

Load impedance:	300 ohm / 2ch
Power output:	3.6V x 2ch
Power supply voltage:	DC13.2V(10.8V to 15.6V)
	Negative ground
Back-up consumption:	Less than 0.3mA
Dimensions(mm):	182(W) x 100(H) x 167(D)
Weight:	Approx. 2.4kg

* Specifications and design are subject to change without notice for further improvement.

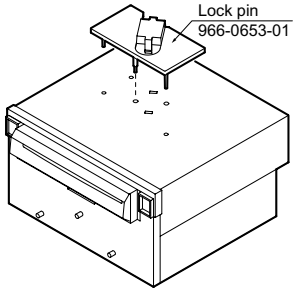
COMPONENTS

PN-2701B-A / PN-2702B-A

Main unit	----------	1

NOTE

* This unit is used the special adjustment jig for measuring and operation.
* In case that the main unit or the CD changer module is transported for repair, the lock pin(966-0653-01) must be set to fix the mechanism assy.



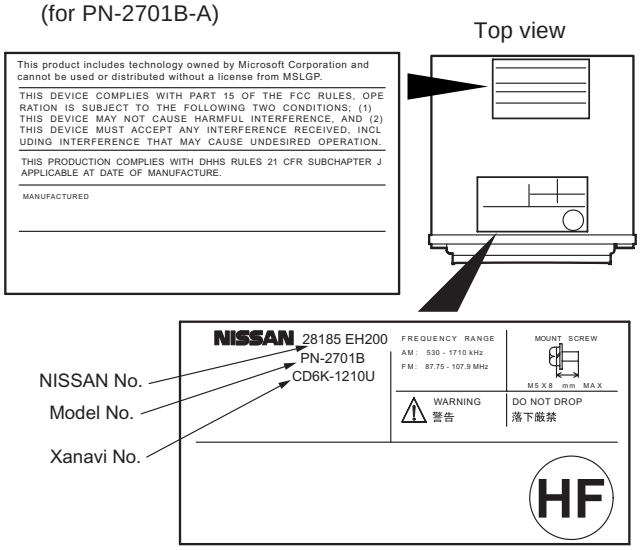
* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

CAUTIONS

Use of controls,adjustment,or performance of procedures other than those specified herein,may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

(for PN-2701B-A)



To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

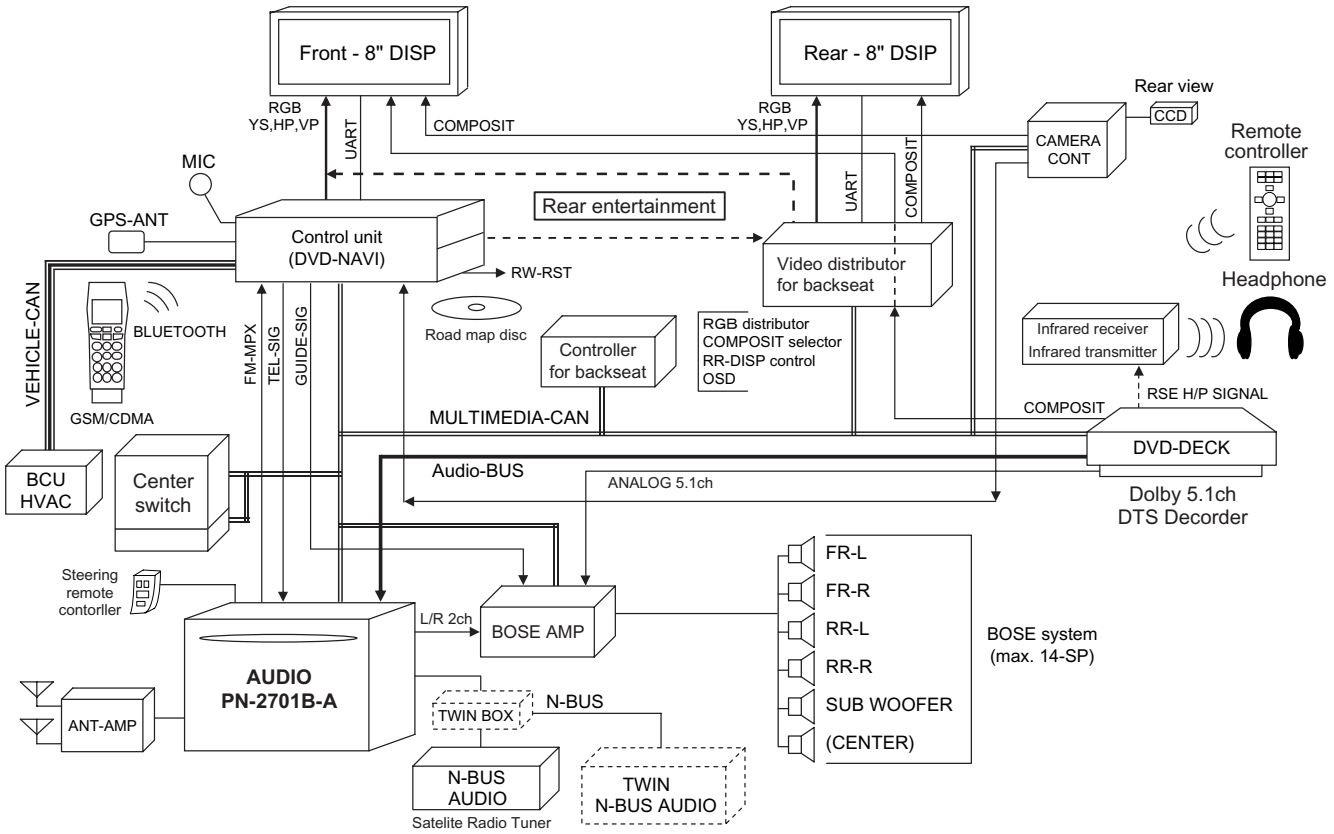
9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

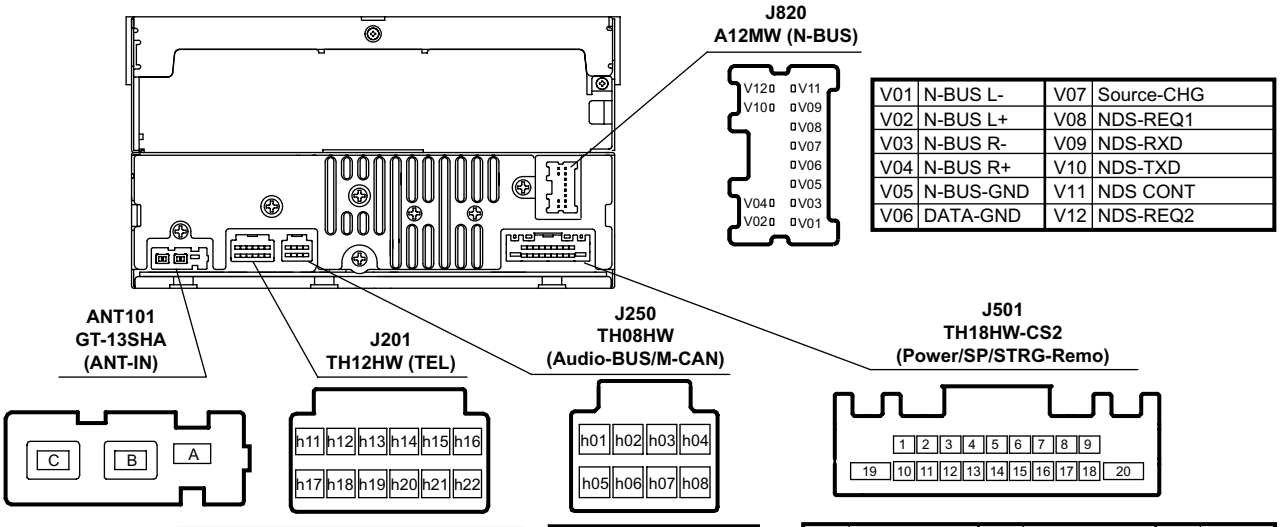
SYSTEM DIAGRAM

IT-Master system (The example of PN-2701B-A.)

This audio unnit has the following connection with a navigation system and accessories.



CONNECTOR LAYOUT



V01	N-BUS L-	V07	Source-CHG
V02	N-BUS L+	V08	NDS-REQ1
V03	N-BUS R-	V09	NDS-RXD
V04	N-BUS R+	V10	NDS-TXD
V05	N-BUS-GND	V11	NDS CONT
V06	DATA-GND	V12	NDS-REQ2

A	ANT+B
B	MAIN ANT
C	SUB ANT

h11	N.C.	h19	TEL GND
h12	TEL VOICE+(*1)	h20	N.C.
h13	TEL VOICE-(*1)	h21	N.C.
h14	N.C.	h22	N.C.
h15	N.C.		
h16	N.C.		
h17	N.C.		
h18	N.C.		

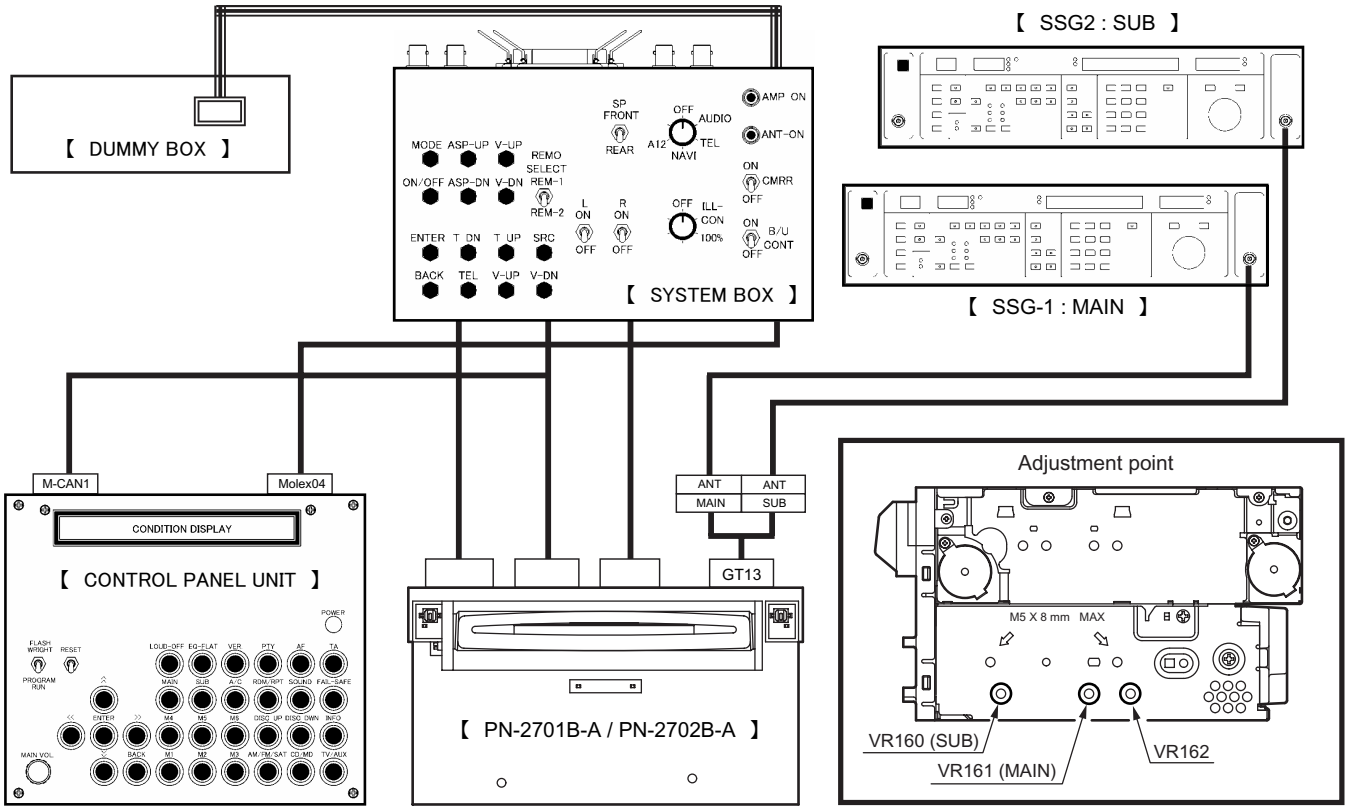
*1 : PN-2702B-A is not connected.

h01	Audio BUS L+
h02	Audio BUS R+
h03	M-CAN H
h04	M-CAN L
h05	Audio BUS L-
h06	Audio BUS R-
h07	Audio BUS GND
h08	N.C.

1	N.C.	9	ILL	17	N.C.
2	SP FL+	10	N.C.	18	N.C.
3	SP FL-	11	SP FR+	19	B/U
4	SP RL+	12	SP FR-	20	GND
5	SP RL-	13	N.C.		
6	STRG SW A	14	N.C.		
7	ACC	15	STRG-GND		
8	ILL CONT(*2)	16	STRG SW B		

*2 : PN-2702B-A is not connected.

CONNECTION OF SERVICE JIG



ADJUSTMENT

Item	Procedure	Measuring instrument
FM noise convergence	<MAIN> 1. An antenna input is fixed to a main channel using a jig(Control panel unit). 2. Set an antenna input to main channel. 3. Input the FM 98.1/55dBu(1kHz, 22.5kHz MOD)signal. This state is standard output(=0dB). 4. Adjust VR161 so that the output level becomes -25dB, when set the SSG output is -20dB. <SUB> 1. An antenna input is fixed to a sub channel using a jig(Control panel unit). 2. Set an antenna input to sub channel. 3. Input the FM 98.1/55dBu(1kHz, 22.5kHz MOD)signal. This state is standard output(=0dB). 4. Adjust VR160 so that the output level becomes -20dB, when set the SSG output is -20dB.	SSG Digital tester
FM stop sensitivity	1. An antenna input is fixed to a main channel using a jig(Control panel unit). 2. Set an antenna input to main channel. 3. Input the 98.1MHz/55dBu(1kHz, 22.5kHz MOD)signal. 4. Adjust VR162 so that the input level becomes 32dB.	SSG Digital tester

EXPLANATION OF IC

052-3188-00 M30843MW-M02GP Audio CPU

Terminal Description

pin 1:	CTRST	: O :	Contrast adjustment analogue output(DA).
pin 2:	SPEED	: IN :	Speed Pulse input.
pin 3:	EEP/ST DA	:I/O:	The serial data input/output for EEP and Sub-tuner.
pin 4:	EEP/ST CK	: O :	The serial clock output for EEP and Sub-tuner.
pin 5:	BU DET	: IN :	Backup detection signal input.
pin 6:	GND	: - :	Ground.
pin 7:	CN VSS	: IN :	Connect to VSS.
pin 8:	ILL ON	: IN :	Illumination ON signal input.
pin 9:	SYS ON	: O :	System ON signal output.
pin 10:	RESET	: IN :	Reset signal input.
pin 11:	X out	: O :	Crystal connection.
pin 12:	VSS	: - :	Negative voltage supply.
pin 13:	X IN	: IN :	Crystal connection.
pin 14:	VDD	: - :	Positive voltage supply.
pin 15:	NMI	: IN :	Connect to VDD.
pin 16:	ACC IN	: IN :	ACC ON flag input.
pin 17:	NC	: O :	Not in use.
pin 18:	NC	: O :	Not in use.
pin 19:	TB	: IN :	Time base input.
pin 20:	NC	: O :	Not in use.
pin 21:	M CAN RX	: IN :	M-CAN serial data input.
pin 22:	M CAN TX	: O :	M-CAN serial data output.
pin 23:	Power IC Stndb	: O :	The standby signal output to Power IC.
pin 24:	BEEP/BUZ	: O :	BEEP out or the buz control.
pin 25:	AMP ON	: O :	AMP ON signal output.
pin 26:	DIMMER	: O :	PWM output.
pin 27:	EEP/MT CK	: O :	The clock pulse output to EEP/Main-tuner.
pin 28:	EEP/MT DA	: O :	The serial data output to EEP/Main-tuner.
pin 29:	NDS TX	: O :	The serial data output for NDS.
pin 30:	NDS RX	: IN :	The serial data input for NDS.
pin 31:	NDS REQ 1	: IN :	NDS request signal input.
pin 32:	NDS CONT	: O :	NDS/Automatic-changer select.
pin 33:	1&6-CD TX	: O :	The serial data output for 1-CD & 6-CD-Changer.
pin 34:	6-CD RX / CK	:I/O:	The serial data input for 6-CD-Changer. Or clock pulse output for 1-CD.
pin 35:	NDS REQ 2	: IN :	NDS request signal input.
pin 36:	NDS S-CHG	: O :	N-BUS audio signal select command output.
pin 37:	NC	: O :	Not in use.
pin 38:	NC	: O :	Not in use.
pin 39:	WRITE ONLY	: - :	WRITE ONLY.
pin 40:	NC	: O :	Not in use.
pin 41:	NC	: O :	Not in use.
pin 42:	NC	: O :	Not in use.
pin 43:	1-CD RX	: IN :	The serial data input from 1-CD.
pin 44:	1&6-CD REQ	: IN :	The request signal input from 1-CD & 6-CD-Changer.
pin 45:	1-CD CS	: O :	The chip select signal output.
pin 46:	1-CD WUP	: O :	The wakeup signal output.
pin 47:	1-CD RESET	: O :	The reset signal output.
pin 48:	CD ON	: O :	CD ON signal output.
pin 49:	Power IC Diag	: IN :	Power IC Diagnosis signal input.
pin 50:	LCD ON	: O :	LCD ON signal output.
pin 51:	KEY/LCD DO	: O :	Serial data output for KEY IC or LCD IC.
pin 52:	KEY/LCD CLK	: O :	Clock output for KEY IC or LCD IC.
pin 53:	KEY/LCD DI	: IN :	Serial data input for KEY IC or LCD IC.
pin 54:	KEY/LCD CE	: O :	Chip Enable output for KEY IC or LCD IC.
pin 55:	KEY/LCD S/R	: O :	KEY IC Standby output / LCD IC Reset output.
pin 56:	VOL-2	: IN :	The volume pulse input.
pin 57:	VOL-1	: IN :	The volume pulse input.
pin 58:	NC	: O :	Not in use.
pin 59:	NC	: O :	Not in use.
pin 60:	VDD	: - :	Positive voltage supply.
pin 61:	POWER-ON	: - :	POWER-KEY.
pin 62:	GND	: - :	Ground
pin 63:	RTLY-VOL2/TH	: IN :	Rotary volume pulse input / temperature.
pin 64:	RTLY-VOL1	: IN :	Rotary volume pulse input.
pin 65:	MD WP	: O :	MD wakeup, H = WAKE-UP, L = SLEEP.
pin 66:	MD XCS	: O :	MD chip select , H = CS ON.
pin 67:	MD XSCK	: O :	MD clock.
pin 68:	CPU-MD	: O :	The serial data output to MD.
pin 69:	MD RESET	: O :	L = RESET ON.
pin 70:	MD XSRQ	: IN :	MD request.
pin 71:	NC	: O :	Not in use.
pin 72:	MD DI	: IN :	The serial data input from MD.
pin 73:	MD LD/RDS CK	: IN :	MD loading start signal input, DISC loading beginning of L. And RDS clock input.
pin 74:	MD ON/RDS DI	: O :	MD power supply control, H = Power ON.
pin 75:	NC	: O :	Not in use. And RDS data input.
pin 76:	ST/SD/TWEET	:I/O:	At AM station receiving, this port outputs "L" by AM 900kHz receiving. At FM station receiving, this port detects the stereo signal. And at seeking or scanning, this port detects the SD signal.
pin 77:	DSP INT	: IN :	The interrupt command input from the DSP IC.
pin 78:	DSP RESET	: O :	Reset signal output to the DSP IC.
pin 79:	S METER	: IN :	The input terminal of internal A/D converter to monitor the radio field strength.
pin 80:	PLL DI	: IN :	Serial data input from the PLL IC.
pin 81:	VFM PLL CE	: O :	The chip enable signal output to the PLL IC.
pin 82:	VFM PLL DO	: O :	Serial data output to the PLL IC.
pin 83:	VFM PLL CK	: O :	The clock pulse output to the PLL.
pin 84:	VFM PLL DI	: IN :	Serial data input from the PLL IC.
pin 85:	VFM SD	: IN :	Station detection signal input.
pin 86:	VFM S METER	: IN :	The input terminal of internal A/D converter to monitor the radio field strength.
pin 87:	MD EJ/6-CD LD	: IN :	MD eject signal input. And 6-CD-Changer loading start signal input.
pin 88:	CD EJECT	: IN :	CD eject signal input.
pin 89:	PLL CK	: IN :	PLL clock input.
pin 90:	PLL DO	: O :	Serial data output to the PLL IC.
pin 91:	PLL CE	: O :	The chip enable signal output to the PLL IC.
pin 92:	N REMO B	: IN :	The input terminal of internal ADC for N-remote-controller signal.
pin 93:	N REMO A	: IN :	The input terminal of internal ADC for N-remote-controller signal.
pin 94:	A GND	: - :	Analog ground.
pin 95:	NC	: O :	Not in use.
pin 96:	Vref	: - :	Reference voltage.
pin 97:	A VCC	: - :	Positive voltage supply for the internal analog section.
pin 98:	DSP/PIC/RDS C	: IN :	The clock pulse input.
pin 99:	DSP/PIC/RDS D	: IN :	The serial data input.
pin100:	ANT ON	: O :	Antenna ON command output.

052-5062-03 MBM29DL800BA-90PFTN 8 M bit Flash Memory

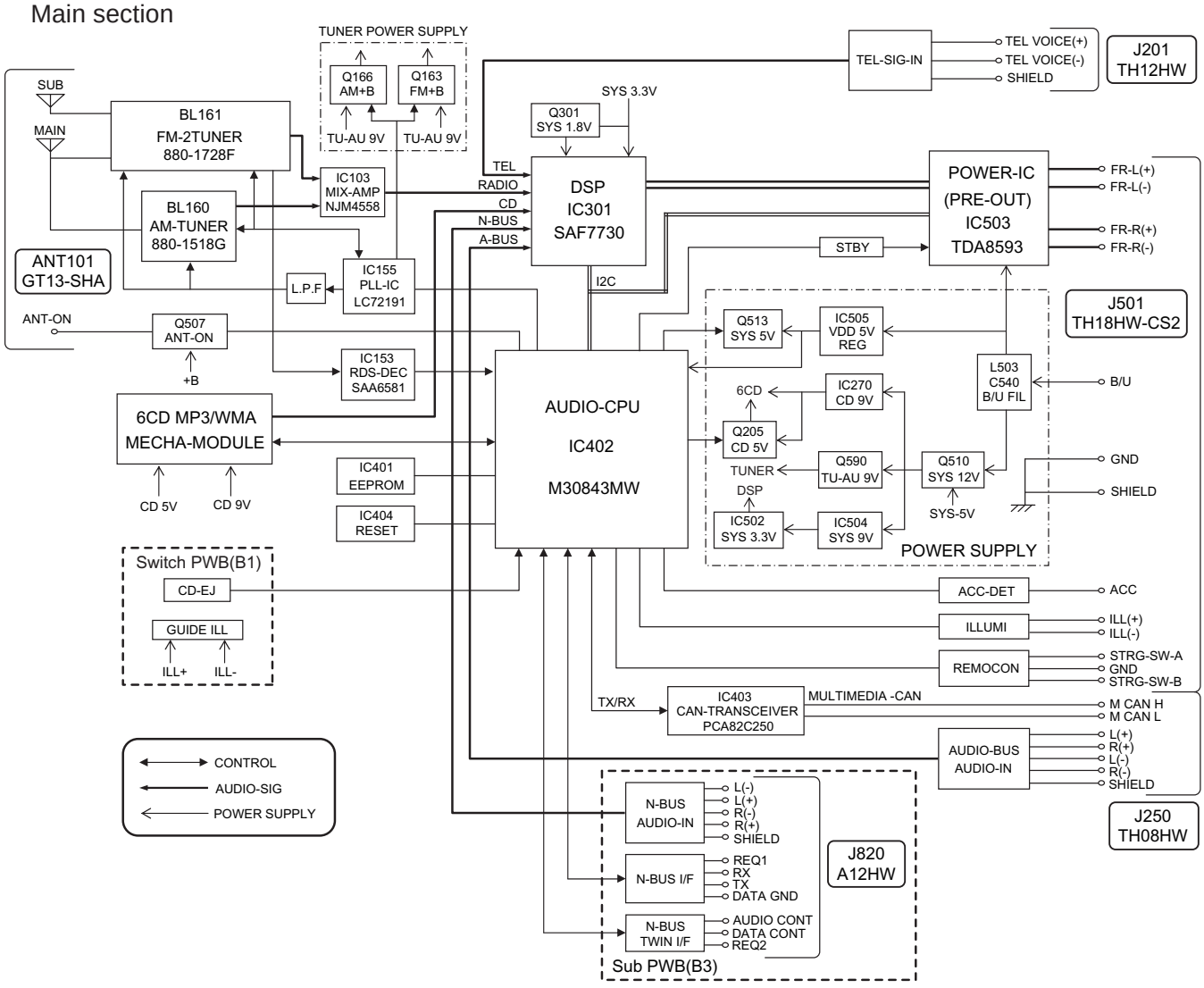
[NOTE] This IC is compatible with 052-5062-02 and 052-5062-01.

Terminal Description

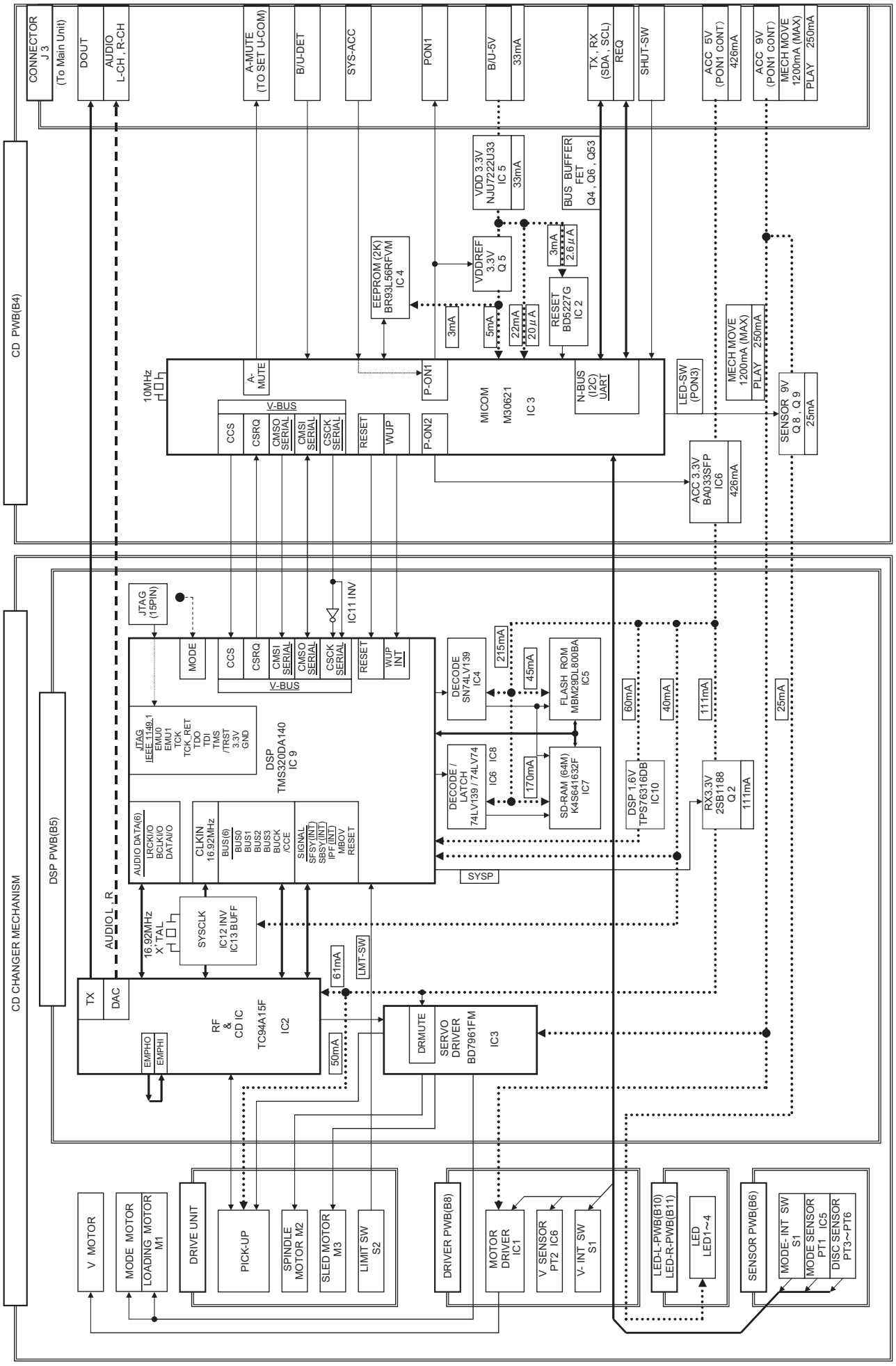
pin 1: Address 15 : IN : Address signal input.
pin 2: Address 14 : IN : Address signal input.
pin 3: Address 13 : IN : Address signal input.
pin 4: Address 12 : IN : Address signal input.
pin 5: Address 11 : IN : Address signal input.
pin 6: Address 10 : IN : Address signal input.
pin 7: Address 9 : IN : Address signal input.
pin 8: Address 8 : IN : Address signal input.
pin 9: NU : - - : Not in use.
pin 10: NU : - - : Not in use.
pin 11: WE : IN : Write enable signal input.
pin 12: RESET : IN : Reset signal input.
pin 13: NU : - - : Not in use.
pin 14: NU : - - : Not in use.
pin 15: Ready/Busy : O : Ready/Busy flag output, H = Ready.
pin 16: Address 18 : IN : Address signal input.
pin 17: Address 17 : IN : Address signal input.
pin 18: Address 7 : IN : Address signal input.
pin 19: Address 6 : IN : Address signal input.
pin 20: Address 5 : IN : Address signal input.
pin 21: Address 4 : IN : Address signal input.
pin 22: Address 3 : IN : Address signal input.
pin 23: Address 2 : IN : Address signal input.
pin 24: Address 1 : IN : Address signal input.
pin 25: Address 0 : IN : Address signal input.
pin 26: CE : IN : Chip enable signal input.
pin 27: VSS : - - : Negative supply voltage.
pin 28: OE : IN : Output enable signal input.
pin 29: DQ 0 : I/O: The data input / output.
pin 30: DQ 8 : I/O: The data input / output.
pin 31: DQ 1 : I/O: The data input / output.
pin 32: DQ 9 : I/O: The data input / output.
pin 33: DQ 2 : I/O: The data input / output.
pin 34: DQ 10 : I/O: The data input / output.
pin 35: DQ 3 : I/O: The data input / output.
pin 36: DQ 11 : I/O: The data input / output.
pin 37: VCC : - - : Positive supply voltage.
pin 38: DQ 4 : I/O: The data input / output.
pin 39: DQ 12 : I/O: The data input / output.
pin 40: DQ 5 : I/O: The data input / output.
pin 41: DQ 13 : I/O: The data input / output.
pin 42: DQ 6 : I/O: The data input / output.
pin 43: DQ 14 : I/O: The data input / output.
pin 44: DQ 7 : I/O: The data input / output.
pin 45: DQ 15/A-1 : I/O: The data input/output,TheAddress signal input.
pin 46: VSS : - - : Negative supply voltage.
pin 47: BYTE : IN : The data length selection(8bit/16bit).
pin 48: Address 16 : IN : Address signal input.

BLOCK DIAGRAM

Main section

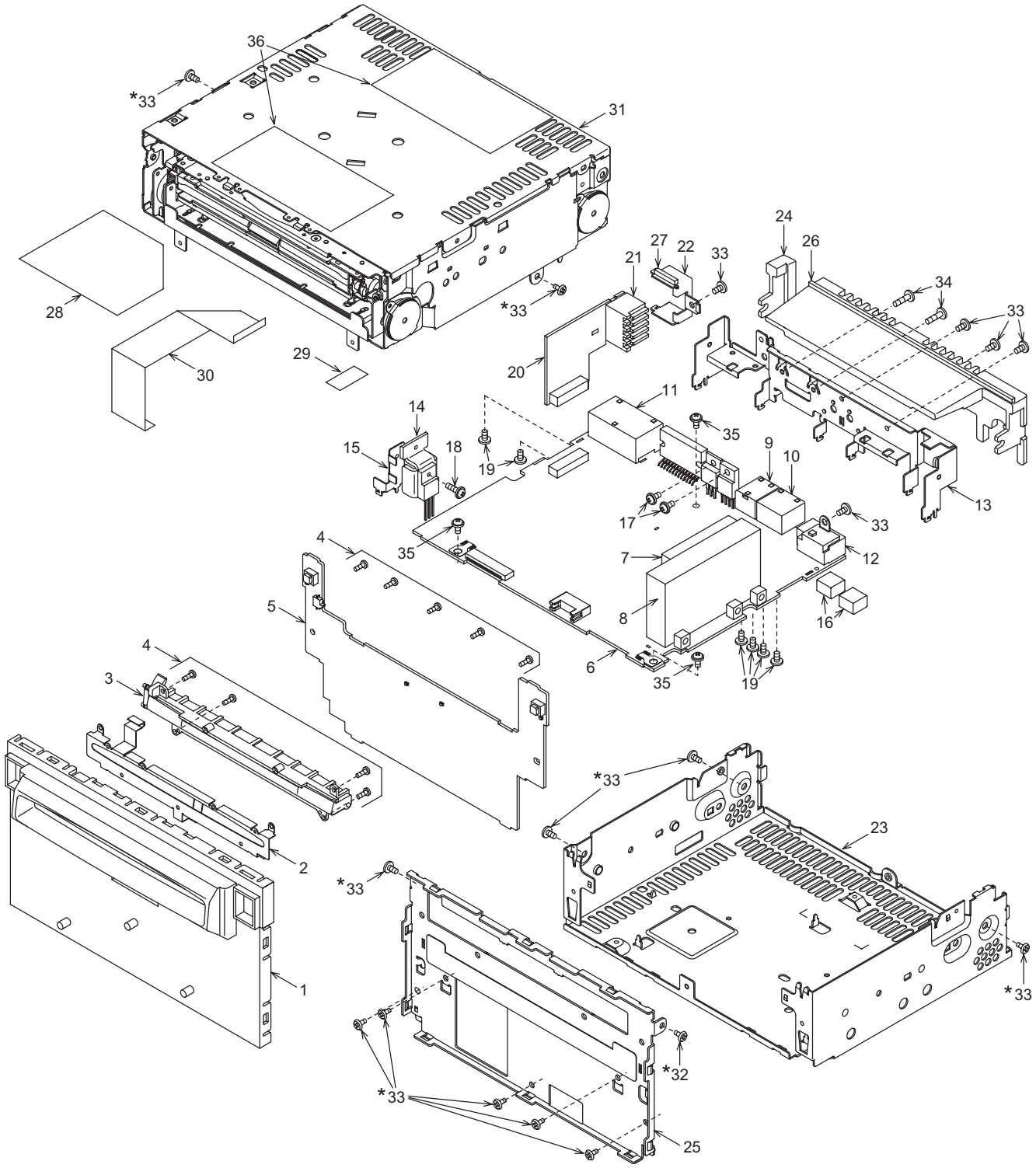


CD changer module section



EXPLODED VIEW / PARTS LIST

Main section

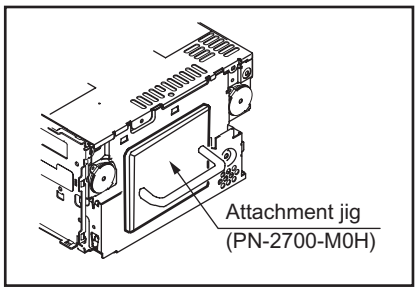


Caution of assembling

When installing this unit into a vehicle, this unit side is equipped with an attachment bracket. The attachment accuracy of the bracket and the unit is +/-0.2mm. If it is not satisfied, that will be a trouble for installation.

Therefore, in assembling the upper block(CD changer module) and the lower block(main unit) of the unit, please use the "Attachment jig". (When the screws of mark(*) are tightened)

After assembling, please check the attachment position of the unit with "Attachment jig" again.



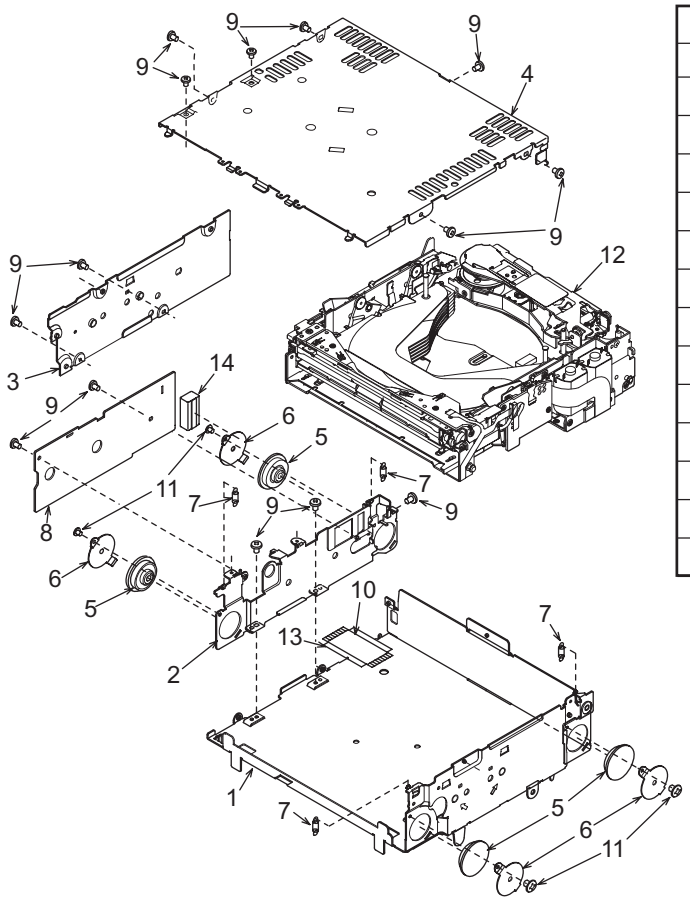
Please set "Attachment jig" to the bracket attachment holes of both sides of the unit.

NO.	PART NO.	DESCRIPTION	Q'TY
1	370-6106-01	ESCUTCHEON	1
2	331-3795-01	SURGE PLATE	1
3	947-0527-00	DOOR ASSY	1
4	716-0778-10	WAVE SCREW(2 x 3)	9
5	----------	SW PWB	1
6	----------	MAIN PWB	1
7	880-1518G	AM TUNER	1
8	880-1728F	FM TUNER	1
9	074-1302-08	OUTLET SOCKET(TH08HW)	1
10	074-1302-12	OUTLET SOCKET(TH12HW)	1
11	074-4009-20	OUTLET SOCKET(TH18HW)	1
12	092-2210-00	ANT-RECEPT(GT13)	1
13	307-0704-00	REAR PLATE	1
14	313-1910-00	HEAT SINK(SUB)	1
15	331-3880-00	TR-HOLDER	1
16	345-8529-00	RUBBER PART	2
17	716-0878-00	IT-SCREW(M2.6 x 5)	2
18	716-1646-00	IT SCREW(M2.6 x 8)	1
19	778-3006-00	TAP-SCREW(3 x 6)	6

NO.	PART NO.	DESCRIPTION	Q'TY
20	----------	SUB PWB	1
21	074-1013-00	OUTLET SOCKET(A12MW)	1
22	331-3792-00	CONNECTR-HOLDER	1
23	311-1890-01	LOWER CASE	1
24	313-1898-00	HEAT SINK	1
25	331-3794-01	ES PLATE	1
26	345-8749-00	GASKET	1
27	345-8749-10	GASKET	1
28	347-7359-00	EARTH SHEET	1
29	347-7363-00	W-FACE	1
30	816-4002-50	FLAT WIRE	1
31	929-0195-84	CD CHANGER MODULE	1
32	714-2003-89	MACHINE SCREW(M2 x 3)	1
33	714-2606-81	MACHINE SCREW(M2.6 x 6)	16
34	714-2610-89	MACHINE SCREW(M2.6 x 10)	2
35	716-0878-00	IT-SCREW(M2.6 x)	3
36	286-6469-07 286-6469-10	SETPLATE(2701) SETPLATE(2702)	1

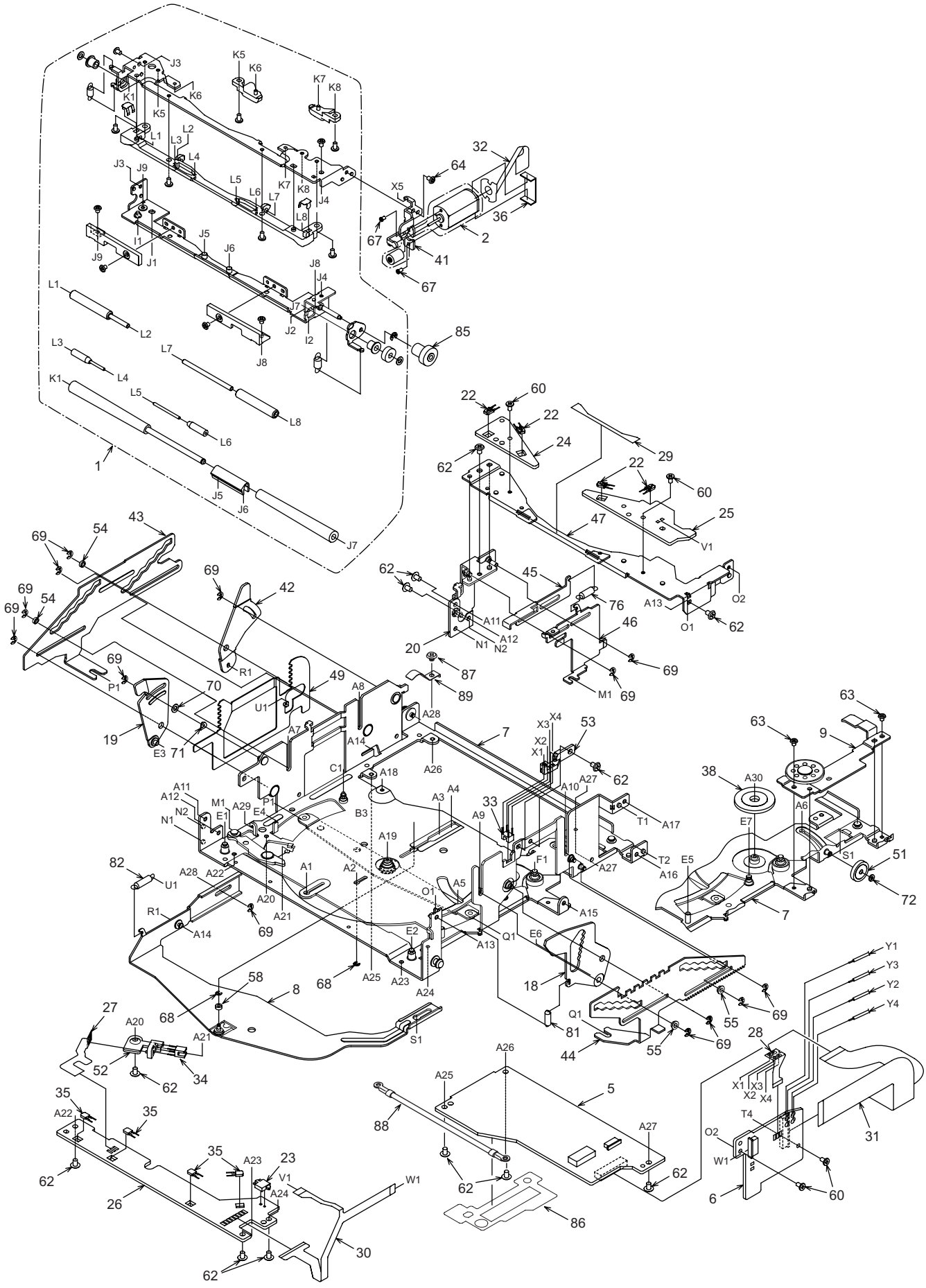
Note) Some parts depend on each model.
The model name is specified in the description.
(PN-2701B-A : 2701, PN-2702B-A : 2702)

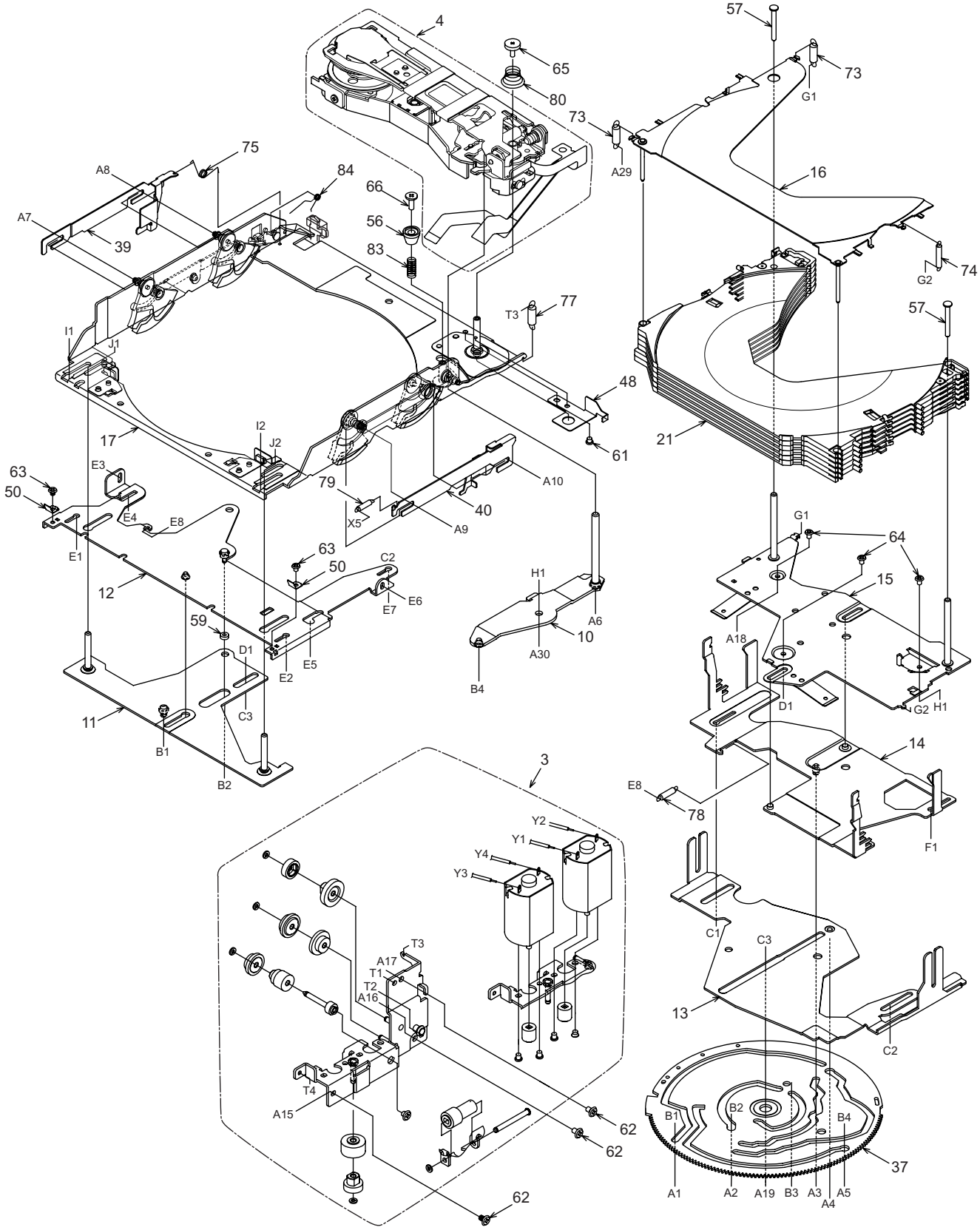
CD changer module section (929-0195-84 : IX-6 type)



NO.	PART NO.	DESCRIPTION	Q'TY
1	311-1864-24	LOWER CASE	1
2	331-3896-22	PWB-HOLDER	1
3	305-0334-20	SIDE CASE	1
4	310-1741-28	UPPER CASE	1
5	629-0083-01	DAMPER	4
6	620-1086-20	DAMPER-H-PLT	4
7	750-3491-00	FL-SPRING	4
8	----------	CD PWB	1
9	716-1716-00	SCREW(M2x3)	14
10	039-1957-01	FPC	1
11	716-3450-00	SCREW(M1.7x2)	4
12	----------	CD CHANGER MECHANISM	1
13	347-6619-00	INSULATOR	1
14	345-8748-00	GASKET	1

CD changer mechanism section



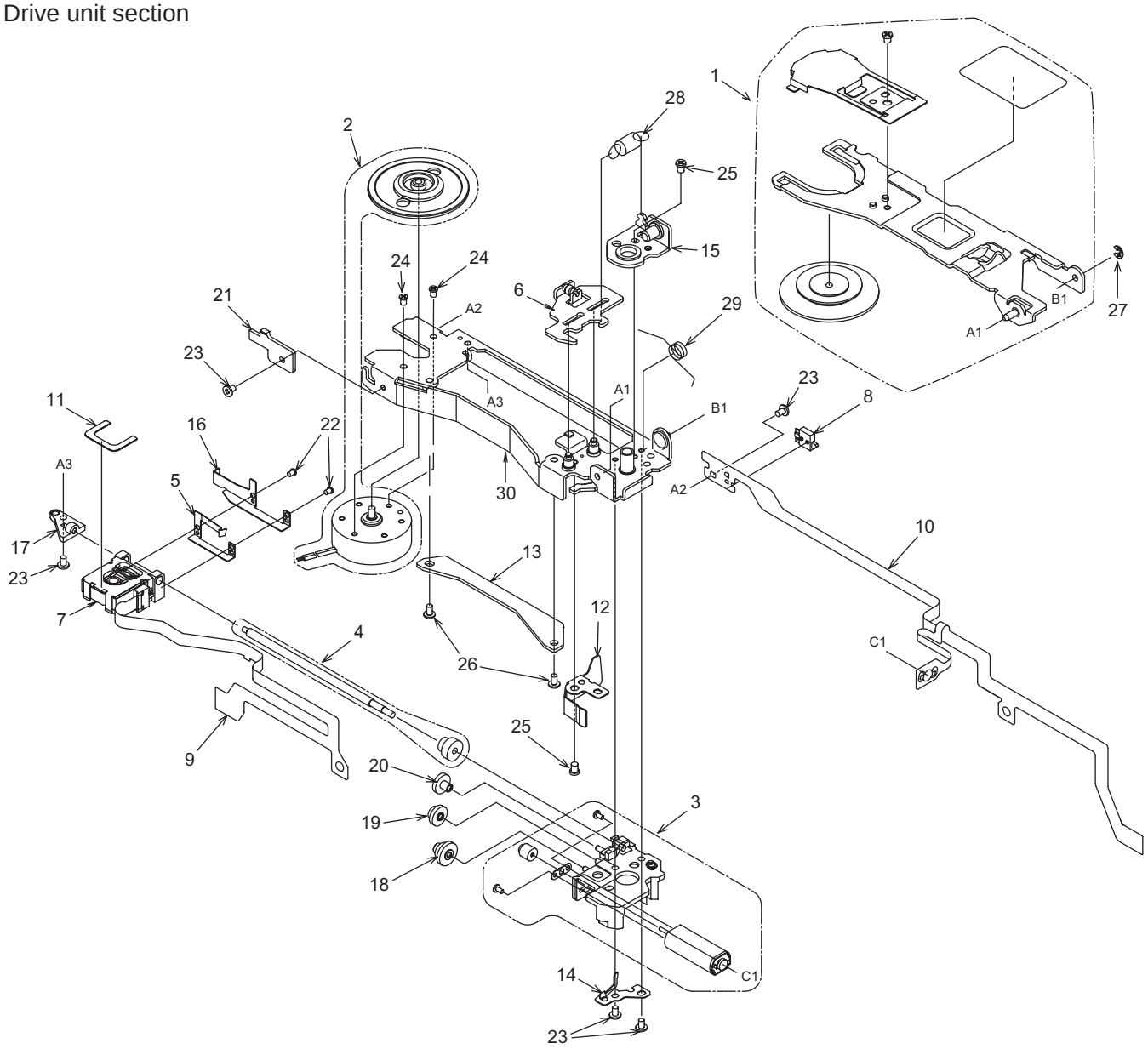


PN-2701B-A
PN-2702B-A

NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-521-100	LOADING UNIT	1
2	SMA-186-100	LOADING MOTOR ASSY	1
3	HBS-530-100	MOTOR PLATE SUB ASSY	1
4	HBS-531-103	DRIVE UNIT	1
5	----------	DSP PWB	1
6	----------	DRIVER PWB	1
7	966-0597-25	CHASSIS ASSY	1
8	966-0600-23	LOCK-P-RE-ASSY	1
9	966-0601-21	M-GEAR-P-ASSY	1
10	966-0602-24	DR-LINK-ASSY	1
11	966-0603-21	MODE-P-ASSY	1
12	966-0604-24	LOCK-PF-ASSY	1
13	966-0605-20	SHIFT-P-ASSY	1
14	966-0606-23	HLC-PLATE-ASSY	1
15	966-0607-26	COV-PLATE-ASSY	1
16	HBS-535-100	TOP-PLATE-ASSY	1
17	966-0652-22	DR-BASE-P-ASSY	1
18	966-0615-21	LOCK-L-RF-ASSY	1
19	966-0616-20	LOCK-L-LF-ASSY	1
20	966-0618-21	EJECT-B-ASSY	1
21	966-0624-27	DISC-HOL-ASSY	1
22	001-7042-00	DIODE (GL4800)	4
23	013-7414-50	DETECTOR SWITCH	1
24	----------	LED-L-PWB	1
25	----------	LED-R-PWB	1
26	----------	SENSOR PWB	1
27	039-2009-00	PIM-FPC (WITHOUT COMPONENT)	1
28	039-2010-00	PIV-FPC (WITHOUT COMPONENT)	1
29	039-2011-01	LED-FPC	1
30	039-2012-00	SENSOR-FPC	1
31	039-2013-02	MOS-FPC	1
32	039-2014-01	L-MOTOR-FPC (WITHOUT COMPONENT)	1
33	051-5806-01	IC (GPIS93)	1
34	051-5806-02	IC (GPIS95)	1
35	060-0252-01	PHOTO-TR	4
36	347-6657-01	LO-COVER SHEET	1
37	620-1041-26	GEAR PLATE	1
38	620-1042-20	M-GEAR-H	1
39	620-1056-22	HLR-PLATE-L	1
40	620-1580-20	HLR-PLATE-R	1
41	620-1576-20	LO-MOTOR-PLT	1
42	620-1066-20	LOCK LINK-LR	1
43	620-1067-21	SLIDE PLATE-L	1
44	620-1068-22	SLIDE PLATE-R	1

NO.	PART NO.	DESCRIPTION	Q'TY
45	620-1071-21	EJECT ARM	1
46	620-1072-20	EJECT PLATE	1
47	620-1577-20	FRONT PLATE	1
48	620-1083-20	FPC-PLATE	1
49	620-1090-20	GAP PLATE	1
50	620-1568-20	RATTLE PLATE-F	2
51	621-0640-20	V-GEAR-G	1
52	621-0641-21	PI-HOLDER-M	1
53	621-0656-21	PI-HOLDER-V	1
54	622-1622-20	SL-G-ROLLER	2
55	622-1623-00	SL-G-ROLLER-R	2
56	622-1648-23	DU-STP-SLEEVE	1
57	622-1650-23	COV-PLATE PIN-B	2
58	622-1651-00	LOCK-RE-ROLLER	1
59	622-1652-00	LOCK-PF-ROLLER	1
60	716-1866-00	SCREW(M1.7x3)	4
61	716-1873-00	SCREW(M2x1.6)	1
62	716-3449-00	SCREW(M2x3)	15
63	716-3450-00	SCREW(M1.7x2)	4
64	716-3451-00	SCREW(M1.7x2.5)	4
65	716-3459-00	SCREW(M1.7x5)	1
66	716-3466-02	SCREW(M2x6)	1
67	738-1422-11	PRECISION SCREW(M1.4x2.2)	2
68	743-1200-10	E-RING	2
69	743-1500-10	E-RING	13
70	746-0624-00	WASHER	1
71	746-0712-23	WASHER	1
72	746-0761-00	WASHER	1
73	750-3478-01	TOP-P-SP-L	2
74	750-3479-01	TOP-P-SP-R	1
75	750-3480-01	DR-LOCK-SP	1
76	750-3483-00	EJECT-A-SPRING	1
77	750-3484-01	DR-BASE-SPRING	1
78	750-3485-01	TENSION-SP-L	1
79	750-3486-01	LO-TENSION-SP	1
80	750-3489-01	DRIVE-P-SPRING	1
81	750-3496-00	GAP-P-SPRING R	1
82	750-3497-00	GAP-P-SPRING L	1
83	750-6711-01	DU-STP-SPRING	1
84	750-6712-01	DR-LOCK-SP-B	1
85	621-0651-22	LOAD GEAR-A	1
86	347-6974-22	FPC COVER	1
87	716-1850-01	SCREW(M2 x 2)	1
88	854-4348-01	EXTENSION LEAD	1
89	620-1604-20	DR-PLATE-SCREW	1

Drive unit section



NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-532-100	CLAMPER SUB ASSY (Date-code : until "Y4707...")	1
	HBS-532-101	CLAMPER SUB ASSY (Date-code : after "Y4708...")	
2	SMA-185-102	SPINDLE MOTOR ASSY	1
3	SMA-191-100	SLED MOTOR ASSY	1
4	HBS-515-101	LS-ASSY	1
5	620-1587-83	SH-SP-PLT	1
6	HBS-542-101	D-SHIFT-P-ASSY	1
7	969-0011-01	PICK UP-ASSY	1
8	013-7414-50	DETECT SWITCH	1
9	039-2015-01	P/U-FPC	1
10	039-2016-02	M/S-FPC (WITHOUT COMPONENT)	1
11	347-6632-00	PU-SHEET	1
12	620-1078-20	PUSH PLATE	1
13	620-1080-22	PU-GUIDE PLATE	1
14	620-1081-20	SCREW PUSH-PLT	1

NO.	PART NO.	DESCRIPTION	Q'TY
15	966-0650-20	SPRING PLT ASSY	1
16	620-1730-81	SCREW-HOL-PLT	1
17	621-0670-20	LS-HOLDER-L	1
18	621-0673-20	D-GEAR A	1
19	621-0674-20	D-GEAR B	1
20	621-0675-20	D-GEAR C	1
21	621-0683-21	DU-STOPPER	1
22	716-3511-00	SCREW(M1.4x3)	2
23	716-3470-00	SCREW(M1.7x3)	5
24	738-1720-17	PRECISION SCREW(M1.7x2)	2
25	738-2025-17	PRECISION SCREW(M2x2.5)	2
26	716-3474-00	SCREW(M1.7x3)	2
27	743-1500-20	E-RING	1
28	750-3487-00	SHIFT-P-SPRING	1
29	750-3504-00	CLAMP-A-SPRING	1
30	966-0649-02	DRIVE PLT-ASSY	1

* No1: The date-code is stamped on the mechanism.
Y(Production place), 4(Year 200[4]), 7(Month), 07(Day)
(Month: 10=[X], 11=[Y], 12=[Z])

ELECTRICAL PARTS LIST

Switch PWB(B1) section

REF No.	PART No.	DESCRIPTION
D803	001-7069-90	LED YELLOW
D805	001-7069-90	LED YELLOW
D806	001-7069-90	LED YELLOW
D807	001-7069-90	LED YELLOW
J801	074-3003-60	10P SOCKET
R804	116-3321-15	1/4W 3.3k ohm
R805	116-3321-15	1/4W 3.3k ohm
R806	116-3321-15	1/4W 3.3k ohm
R807	116-3321-15	1/4W 3.3k ohm
S801	013-7415-50	SPVG110400
S802	013-6300-51	SJPGAA032A
S803	013-6300-51	SJPGAA032A
TM801	073-0778-90	TERMINAL
TM802	073-0778-90	TERMINAL
TM803	073-0778-90	TERMINAL
TM804	073-0778-90	TERMINAL
PWB	039-2561-01	PWB(WITHOUT COMPONENT)

Main PWB(B2) section

PN-2701B-A

REF No.	PART No.	DESCRIPTION
ANT101	092-2210-00	GT13SHA-2/1PP-DS
BL160	880-1518G	AM TUNER
BL161	880-1728F	FM TUNER
C101	166-1011-50	100pF CH
C102	168-1022-55	1000pF K
C103	166-3301-50	33pF CH
C107	168-4732-78	0.047uF K
C108	168-1042-78	16V 0.1uF
C109	168-4722-55	4700pF K
C119	189-1073-39	16V100uF
C127	166-2201-50	22pF CH
C128	168-1022-55	1000pF K
C129	166-2201-50	22pF CH
C130	178-1052-78	1uF
C132	178-1052-78	1uF
C133	166-5601-50	56pF CH
C134	166-4701-50	47pF CH
C135	168-5632-78	16V 0.056uF
C138	168-5632-78	16V 0.056uF
C140	166-1011-50	100pF CH
C141	166-1011-50	100pF CH
C152	166-5611-50	560pF CH
C153	166-1011-50	100pF CH
C160	166-1511-50	150pF CH
C161	166-1007-50	10pF CH
C162	168-2222-55	2200pF K
C163	168-1032-55	0.01uF K
C164	187-4763-37	16V47uF
C165	168-1042-78	16V 0.1uF
C166	178-2242-78	0.22uF
C167	187-4763-17	6.3V47uF
C168	166-1011-50	100pF CH
C169	168-1042-78	16V 0.1uF
C170	187-3363-27	10V 33uF
C173	187-4763-37	16V47uF
C174	168-1042-78	16V 0.1uF
C175	187-4763-37	16V47uF
C176	168-3322-55	3300pF K
C177	168-1042-78	16V 0.1uF
C178	043-0277-51	0.022uF
C179	187-2253-67	50V2.2uF
C180	168-3312-55	330pF K
C185	168-5632-78	16V 0.056uF
C186	168-5632-78	16V 0.056uF
C187	043-0277-51	0.022uF
C188	187-4763-37	16V47uF
C189	168-1022-55	1000pF K
C190	186-1053-69	50V 1uF
C191	168-2232-55	0.022uF K
C192	187-4763-37	16V47uF
C193	166-1011-50	100pF CH
C194	166-1011-50	100pF CH
C195	166-1011-50	100pF CH
C196	166-1011-50	100pF CH
C197	166-1801-50	18pF CH
C199	166-1501-50	15pF CH
C207	178-4732-78	0.047uF
C208	178-4732-78	0.047uF
C209	168-8222-55	8200pF K
C210	168-8222-55	8200pF K
C226	168-1042-78	16V 0.1uF
C227	168-1832-55	0.018uF K
C250	168-1022-55	1000pF K
C251	168-1022-55	1000pF K
C252	168-1022-55	1000pF K
C253	168-1022-55	1000pF K
C254	043-0548-50	10V 2.2uF
C255	043-0548-50	10V 2.2uF
C256	043-0548-50	10V 2.2uF
C257	043-0548-50	10V 2.2uF
C270	189-2273-29	10V 220uF
C271	187-1063-37	16V10uF
C272	168-1042-78	16V 0.1uF
C273	168-1042-78	16V 0.1uF
C275	187-1063-37	16V10uF
C288	166-1011-50	100pF CH
C301	166-4701-50	47pF CH
C302	166-1021-50	1000pF CH
C305	187-4753-57	35V 4.7uF
C308	166-1021-50	1000pF CH
C309	166-1007-50	10pF CH
C310	166-1007-50	10pF CH
C311	168-1042-78	16V 0.1uF
C312	168-1042-78	16V 0.1uF
C313	168-1022-55	1000pF K
C314	168-1022-55	1000pF K
C315	166-1011-50	100pF CH
C317	187-4753-57	35V 4.7uF
C318	168-1042-78	16V 0.1uF
C319	187-4753-57	35V 4.7uF
C320	168-1042-78	16V 0.1uF
C321	166-4701-50	47pF CH
C323	187-4753-57	35V 4.7uF
C324	166-1011-50	100pF CH
C325	168-2232-55	0.022uF K
C326	189-3373-18	6.3V 330uF
C327	042-0423-94	10V 4.7uF
C329	187-2263-37	16V 22uF
C330	168-1022-55	1000pF K
C331	168-1042-78	16V 0.1uF
C332	168-1042-78	16V 0.1uF
C333	168-1022-55	1000pF K
C334	168-1022-55	1000pF K
C335	168-2232-55	0.022uF K
C336	178-1052-78	1uF
C337	168-3332-78	0.033uF K
C339	168-3322-55	3300pF K
C341	168-3322-55	3300pF K
C342	168-2232-55	0.022uF K
C343	168-4712-55	470pF K
C344	168-1042-78	16V 0.1uF
C345	168-1042-78	16V 0.1uF
C346	168-2232-55	0.022uF K
C347	168-1042-78	16V 0.1uF
C348	178-1052-78	1uF
C349	189-3373-18	6.3V 330uF
C351	189-2273-29	10V 220uF
C355	168-2222-55	2200pF K
C356	187-1073-17	6.3V 100uF
C357	168-2222-55	2200pF K
C358	187-1073-17	6.3V 100uF
C360	168-1042-78	16V 0.1uF
C361	168-1042-78	16V 0.1uF
C362	168-1042-78	16V 0.1uF
C363	168-1042-78	16V 0.1uF
C364	168-1042-78	16V 0.1uF
C401	168-1042-78	16V 0.1uF
C402	168-1042-78	16V 0.1uF
C403	166-2201-50	22pF CH
C404	166-2201-50	22pF CH
C405	168-4722-55	4700pF K
C406	166-1201-50	12pF CH
C407	166-1201-50	12pF CH
C408	168-1042-78	16V 0.1uF
C409	187-4763-17	6.3V47uF
C410	168-1042-78	16V 0.1uF
C411	168-1042-78	16V 0.1uF
C412	168-1032-55	0.01uF K
C415	166-1011-50	100pF CH
C416	166-1011-50	100pF CH
C417	166-1011-50	100pF CH
C418	166-1011-50	100pF CH
C503	178-1052-78	1uF
C504	178-1052-78	1uF
C506	166-5611-50	560pF CH
C508	166-5611-50	560pF CH
C510	166-2201-50	22pF CH
C512	166-2201-50	22pF CH
C513	168-1042-78	16V 0.1uF
C514	166-5611-50	560pF CH
C517	166-5611-50	560pF CH
C518	042-0579-51	16V 10uF
C519	178-4742-78	0.47uF
C520	178-4742-78	0.47uF
C521	178-4742-78	0.47uF
C522	178-4742-78	0.47uF
C523	168-1042-78	16V 0.1uF
C524	042-0416-56	10V22uF M TAN
C525	178-1052-78	1uF
C526	163-2263-35	16V22uF
C527	042-1439-90	10V 220uF
C529	042-0643-50	35V22uF
C531	042-0579-51	16V 10uF
C533	168-1042-78	16V 0.1uF
C534	163-2253-65	50V2.2uF
C535	187-1053-67	50V1uF
C536	168-1042-78	16V 0.1uF
C538	189-1073-39	16V100uF
C539	172-1841-15	0.18uF
C540	042-1600-00	16V 1000uF
C541	168-1042-78	16V 0.1uF
C542	042-0423-97	16V10uF
C543	168-1042-78	16V 0.1uF
C544	168-1042-78	16V 0.1uF
C545	189-1073-39	16V100uF
C547	168-2232-55	0.022uF K
C548	168-2232-55	0.022uF K

REF No.	PART No.	DESCRIPTION
C549	168-6822-55	6800pF K
C550	168-2232-55	0.022uF K
C551	168-2232-55	0.022uF K
C556	178-1052-78	1uF
C558	168-2232-55	0.022uF K
C561	166-1011-50	100pF CH
C566	168-2232-55	0.022uF K
C567	168-2232-55	0.022uF K
C568	168-2232-55	0.022uF K
C569	168-2232-55	0.022uF K
C593	042-0579-51	16V 10uF
C595	189-1073-39	16V100uF
C598	168-1022-55	1000pF K
C599	168-1022-55	1000pF K
CCT401	050-0145-52	1/16W 1k ohm x 4
D204	001-0529-32	MA8056-M
D503	001-0516-90	MA111
D504	001-0516-90	MA111
D505	001-0529-48	MA8091-H
D506	001-0516-90	MA111
D507	001-0516-90	MA111
D508	001-2015-00	RL253
D510	001-0466-90	S5688B
D511	001-0516-90	MA111
D512	001-0529-34	MA8062-L
D590	001-0504-48	HZS9C2L
IC103	051-3034-90	NJM4558V
IC153	051-4607-90	SAA6581T
IC155	051-6212-08	LC72191JM-TLM
IC270	051-3340-00	LD1085P
IC301	051-6706-00	SAF7730H/N114
IC401	051-9421-91	BR24L08FVM-WTR
IC402	052-3188-00	M30843MW-M02GP
IC403	051-6607-08	PCA82C250T-T
IC404	051-5420-08	S-80943CNMC-G9D
IC501	051-3019-90	NJM2060V
IC502	051-3343-00	NJM2396F33
IC503	051-2055-00	TDA8593J/N3
IC504	051-3340-00	LD1085P
IC505	051-3341-90	BD3931FP
IC506	051-5441-08	BD4828G-TR
J201	074-1302-12	12P
J203	074-1237-70	20P
J250	074-1302-08	OUTLET SOCKET
J501	074-4009-20	TH18HW-CS
L104	010-2003-04	COIL
L105	010-3105-62	1k ohm/100MHz
L161	010-3406-66	22uH
L162	010-3406-66	22uH
L163	010-2198-56	2.2uH
L164	010-3406-66	22uH
L165	010-6009-64	2.2uH
L166	010-3406-66	22uH
L167	010-3406-66	22uH
L201	119-0000-05	1/10W 0 ohm JW
L202	119-0000-05	1/10W 0 ohm JW
L205	010-3105-62	1k ohm/100MHz
L206	010-3105-62	1k ohm/100MHz
L207	010-3105-62	1k ohm/100MHz
L208	010-3105-62	1k ohm/100MHz
L209	010-3104-54	220 ohm/100MHz
L210	010-3104-54	220 ohm/100MHz
L302	010-3105-62	1k ohm/100MHz
L303	010-3105-62	1k ohm/100MHz
L304	010-3105-62	1k ohm/100MHz
L305	010-3104-54	220 ohm/100MHz
L307	010-3105-62	1k ohm/100MHz
L308	010-3105-62	1k ohm/100MHz
L309	119-0000-05	1/10W 0 ohm JW
L310	119-0000-05	1/10W 0 ohm JW
L311	010-3105-62	1k ohm/100MHz
L312	010-3105-62	1k ohm/100MHz
L313	010-3105-62	1k ohm/100MHz
L314	010-3105-62	1k ohm/100MHz

REF No.	PART No.	DESCRIPTION
L315	010-2198-51	0.22uH
L401	010-3601-50	600ohm(10-100MHz)
L402	010-3406-54	2.2uH
L403	010-3105-62	1k ohm/100MHz
L404	010-3105-62	1k ohm/100MHz
L502	010-3406-66	22uH
L503	010-8028-00	520uH
L504	010-3105-62	1k ohm/100MHz
L505	010-3105-62	1k ohm/100MHz
L506	010-3105-62	1k ohm/100MHz
L507	010-3105-62	1k ohm/100MHz
L508	010-3105-62	1k ohm/100MHz
P201	076-0368-20	20P
P401	076-0478-58	8P
P402	076-0662-60	10P
Q113	192-4116-00	2SC4116
Q160	125-2026-91	UN5211
Q161	125-9017-92	UMD3N
Q162	125-2026-92	UN5212
Q163	190-1298-00	2SA1298
Q164	125-2026-91	UN5211
Q166	190-1162-00	2SA1162
Q168	192-4116-51	2SC4116 G,L
Q169	192-4116-51	2SC4116 G,L
Q204	125-2026-91	UN5211
Q205	193-2118-00	2SD2118
Q206	125-9017-92	UMD3N
Q301	125-7005-90	PHK04P02T
Q302	125-2026-91	UN5211
Q308	125-2026-91	UN5211
Q507	191-1240-00	2SB1240
Q508	125-2026-95	UN521N
Q509	192-4116-51	2SC4116 G,L
Q510	191-1204-61	2SB1204R.S.T
Q512	125-2026-91	UN5211
Q513	190-1298-00	2SA1298
Q517	192-4116-00	2SC4116
Q590	193-2118-00	2SD2118
R105	119-0000-05	1/10W 0 ohm JW
R121	119-5631-15	1/10W 56k ohm
R122	119-4721-15	1/10W 4.7k ohm
R123	119-4721-15	1/10W 4.7k ohm
R125	119-1021-15	1/10W 1k ohm
R126	119-1021-15	1/10W 1k ohm
R127	119-5631-15	1/10W 56k ohm
R131	119-6831-15	1/10W 68k ohm
R134	119-6831-15	1/10W 68k ohm
R135	119-3931-15	1/10W 39k ohm
R136	119-3931-15	1/10W 39k ohm
R142	119-1031-15	1/10W 10k ohm
R143	119-1031-15	1/10W 10k ohm
R148	119-1021-15	1/10W 1k ohm
R149	119-1021-15	1/10W 1k ohm
R152	119-1021-15	1/10W 1k ohm
R153	119-3321-15	1/10W 3.3k ohm
R154	119-4731-15	1/10W 47k ohm
R160	119-1021-15	1/10W 1k ohm
R161	119-2221-15	1/10W 2.2k ohm
R162	119-1031-15	1/10W 10k ohm
R163	119-2221-15	1/10W 2.2k ohm
R164	119-3311-15	1/10W 330 ohm
R165	119-1041-15	1/10W 100k ohm
R167	119-1021-15	1/10W 1k ohm
R168	119-3331-15	1/10W 33k ohm
R169	119-0000-05	1/10W 0 ohm JW
R170	119-0000-05	1/10W 0 ohm JW
R171	119-2221-15	1/10W 2.2k ohm
R172	119-2221-15	1/10W 2.2k ohm
R173	119-1031-15	1/10W 10k ohm
R174	119-1031-15	1/10W 10k ohm
R175	119-2221-15	1/10W 2.2k ohm
R181	119-4721-15	1/10W 4.7k ohm
R182	119-2221-15	1/10W 2.2k ohm
R183	119-3321-15	1/10W 3.3k ohm

REF No.	PART No.	DESCRIPTION
R184	119-2221-15	1/10W 2.2k ohm
R185	119-1021-15	1/10W 1k ohm
R186	119-4721-15	1/10W 4.7k ohm
R187	119-1021-15	1/10W 1k ohm
R188	119-2221-15	1/10W 2.2k ohm
R189	119-1031-15	1/10W 10k ohm
R190	119-1031-15	1/10W 10k ohm
R203	119-3011-15	1/10W 300 ohm
R208	032-0140-80	1/10W 18k ohm F
R209	032-0140-80	1/10W 18k ohm F
R217	119-0000-05	1/10W 0 ohm JW
R218	119-0000-05	1/10W 0 ohm JW
R219	119-0000-05	1/10W 0 ohm JW
R220	119-0000-05	1/10W 0 ohm JW
R225	119-0000-05	1/10W 0 ohm JW
R226	119-0000-05	1/10W 0 ohm JW
R227	119-1021-15	1/10W 1k ohm
R229	117-2211-15	1/8W 220 ohm
R230	119-1041-15	1/10W 100k ohm
R250	119-2731-15	1/10W 27k ohm
R251	119-2731-15	1/10W 27k ohm
R252	010-3105-62	1k ohm/100MHz
R253	010-3105-62	1k ohm/100MHz
R254	010-3105-62	1k ohm/100MHz
R255	010-3105-62	1k ohm/100MHz
R271	119-4731-15	1/10W 47k ohm
R272	119-4731-15	1/10W 47k ohm
R273	032-0140-98	1/10W 330 ohm F
R274	032-0140-93	1/10W 2k ohm F
R301	032-0140-80	1/10W 18k ohm F
R302	032-0140-80	1/10W 18k ohm F
R303	032-0140-80	1/10W 18k ohm F
R304	032-0140-80	1/10W 18k ohm F
R305	119-4721-15	1/10W 4.7k ohm
R306	119-4721-15	1/10W 4.7k ohm
R307	119-0000-05	1/10W 0 ohm JW
R311	119-1031-15	1/10W 10k ohm
R315	032-0140-50	1/10W 10k ohm F
R316	119-1031-15	1/10W 10k ohm
R317	119-1031-15	1/10W 10k ohm
R318	032-0140-50	1/10W 10k ohm F
R319	032-0140-50	1/10W 10k ohm F
R320	010-3105-62	1k ohm/100MHz
R321	032-0140-50	1/10W 10k ohm F
R322	119-1041-15	1/10W 100k ohm
R323	119-1041-15	1/10W 100k ohm
R324	119-1001-15	1/10W 10 ohm
R325	119-1031-15	1/10W 10k ohm
R326	119-1031-15	1/10W 10k ohm
R327	032-0140-50	1/10W 10k ohm F
R328	032-0140-50	1/10W 10k ohm F
R329	032-0140-50	1/10W 10k ohm F
R330	032-0140-50	1/10W 10k ohm F
R332	119-1031-15	1/10W 10k ohm
R333	119-1031-15	1/10W 10k ohm
R335	119-1031-15	1/10W 10k ohm
R336	119-1031-15	1/10W 10k ohm
R337	010-3105-62	1k ohm/100MHz
R338	119-1011-15	1/10W 100 ohm
R339	119-1011-15	1/10W 100 ohm
R340	010-3105-62	1k ohm/100MHz
R341	010-3105-62	1k ohm/100MHz
R342	010-3105-62	1k ohm/100MHz
R343	119-1031-15	1/10W 10k ohm
R344	119-1031-15	1/10W 10k ohm
R345	010-3105-62	1k ohm/100MHz
R347	010-3105-62	1k ohm/100MHz
R348	119-0000-05	1/10W 0 ohm JW
R349	119-0000-05	1/10W 0 ohm JW
R352	119-1021-15	1/10W 1k ohm
R353	119-1021-15	1/10W 1k ohm
R356	119-4731-15	1/10W 47k ohm
R357	119-0000-05	1/10W 0 ohm JW
R358	119-0000-05	1/10W 0 ohm JW

REF No.	PART No.	DESCRIPTION
R363	119-1031-15	1/10W 10k ohm
R364	119-1031-15	1/10W 10k ohm
R365	119-0000-05	1/10W 0 ohm JW
R367	119-0000-05	1/10W 0 ohm JW
R368	116-1001-15	1/4W 10 ohm
R370	119-1011-15	1/10W 100 ohm
R374	010-3105-62	1k ohm/100MHz
R375	010-3105-62	1k ohm/100MHz
R378	032-0140-80	1/10W 18k ohm F
R379	032-0140-80	1/10W 18k ohm F
R380	032-0140-80	1/10W 18k ohm F
R381	032-0140-80	1/10W 18k ohm F
R382	119-0000-05	1/10W 0 ohm JW
R383	119-0000-05	1/10W 0 ohm JW
R384	119-0000-05	1/10W 0 ohm JW
R385	119-0000-05	1/10W 0 ohm JW
R401	119-1021-15	1/10W 1k ohm
R402	119-1021-15	1/10W 1k ohm
R403	119-1021-15	1/10W 1k ohm
R404	119-0000-05	1/10W 0 ohm JW
R405	119-1021-15	1/10W 1k ohm
R406	119-1021-15	1/10W 1k ohm
R407	119-1021-15	1/10W 1k ohm
R408	119-4731-15	1/10W 47k ohm
R409	119-3311-15	1/10W 330 ohm
R410	119-3311-15	1/10W 330 ohm
R411	119-4721-15	1/10W 4.7k ohm
R412	119-4721-15	1/10W 4.7k ohm
R413	119-4731-15	1/10W 47k ohm
R414	119-4731-15	1/10W 47k ohm
R415	119-4731-15	1/10W 47k ohm
R416	119-4721-15	1/10W 4.7k ohm
R417	119-4721-15	1/10W 4.7k ohm
R418	119-1011-15	1/10W 100 ohm
R419	119-1011-15	1/10W 100 ohm
R420	119-1011-15	1/10W 100 ohm
R421	119-1011-15	1/10W 100 ohm
R422	119-1031-15	1/10W 10k ohm
R423	119-1031-15	1/10W 10k ohm
R424	119-1011-15	1/10W 100 ohm
R425	119-1011-15	1/10W 100 ohm
R426	116-6201-15	1/4W 62 ohm D
R427	116-6201-15	1/4W 62 ohm D
R428	119-1031-15	1/10W 10k ohm
R429	119-4731-15	1/10W 47k ohm

REF No.	PART No.	DESCRIPTION
R430	119-0000-05	1/10W 0 ohm JW
R431	119-1031-15	1/10W 10k ohm
R434	119-1031-15	1/10W 10k ohm
R438	119-1021-15	1/10W 1k ohm
R442	119-4731-15	1/10W 47k ohm
R453	119-2221-15	1/10W 2.2k ohm
R470	119-1841-15	1/10W 180k ohm
R471	119-1021-15	1/10W 1k ohm
R472	119-1021-15	1/10W 1k ohm
R475	119-1021-15	1/10W 1k ohm
R476	119-1021-15	1/10W 1k ohm
R480	119-2231-15	1/10W 22k ohm
R490	119-0000-05	1/10W 0 ohm JW
R503	119-1031-15	1/10W 10k ohm
R504	119-1031-15	1/10W 10k ohm
R505	119-1031-15	1/10W 10k ohm
R507	119-1031-15	1/10W 10k ohm
R510	119-1031-15	1/10W 10k ohm
R513	119-0000-05	1/10W 0 ohm JW
R514	119-1031-15	1/10W 10k ohm
R515	119-0000-05	1/10W 0 ohm JW
R516	119-1051-15	1/10W 1M ohm
R517	119-0000-05	1/10W 0 ohm JW
R518	119-1051-15	1/10W 1M ohm
R519	119-0000-05	1/10W 0 ohm JW
R520	119-1031-15	1/10W 10k ohm
R521	119-1031-15	1/10W 10k ohm
R524	119-1031-15	1/10W 10k ohm
R526	116-1221-15	1/4W 1.2k ohm
R527	116-1091-15	1/4W 1 ohm
R529	119-1031-15	1/10W 10k ohm
R530	119-0000-05	1/10W 0 ohm JW
R534	032-0140-98	1/10W 330 ohm F
R535	032-0140-93	1/10W 2k ohm F
R536	119-0000-05	1/10W 0 ohm JW
R537	119-0000-05	1/10W 0 ohm JW
R538	119-0000-05	1/10W 0 ohm JW
R539	119-0000-05	1/10W 0 ohm JW
R540	119-0000-05	1/10W 0 ohm JW
R541	116-1221-15	1/4W 1.2k ohm
R542	116-1221-15	1/4W 1.2k ohm
R543	116-1221-15	1/4W 1.2k ohm
R544	116-4791-15	1/4W4.7 ohm
R545	119-1031-15	1/10W 10k ohm
R546	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R547	119-4741-15	1/10W 470k ohm
R548	119-4721-15	1/10W 4.7k ohm
R549	116-4791-15	1/4W4.7 ohm
R550	119-1521-15	1/10W 1.5k ohm
R552	119-1031-15	1/10W 10k ohm
R553	119-4721-15	1/10W 4.7k ohm
R554	119-4721-15	1/10W 4.7k ohm
R555	119-1011-15	1/10W 100 ohm
R556	119-1011-15	1/10W 100 ohm
R557	119-4731-15	1/10W 47k ohm
R558	032-0148-50	1/10W 100k ohm
R559	032-0148-54	1/16W 180k ohm D
R563	116-2721-15	1/4W 2.2k ohm
R564	116-1531-15	1/4W 15k ohm
R568	119-4731-15	1/10W 47k ohm
R569	119-1031-15	1/10W 10k ohm
R570	119-5611-15	1/10W 560 ohm
R576	119-0000-05	1/10W 0 ohm JW
R579	117-1001-15	1/8W 10 ohm
R580	117-1001-15	1/8W 10 ohm
R581	117-1001-15	1/8W 10 ohm
R582	117-1001-15	1/8W 10 ohm
R585	119-0000-05	1/10W 0 ohm JW
R586	119-1031-15	1/10W 10k ohm
R594	119-0000-05	1/10W 0 ohm JW
R595	116-3911-15	1/4W 390 ohm
R596	119-0000-05	1/10W 0 ohm JW
R600	060-0108-00	1/6ZP 0 ohm JW
SUP101	060-0122-91	DSP-141N-S00B
SUP102	060-0122-91	DSP-141N-S00B
TH501	002-0229-90	PTH8L05B
TM160	073-0768-90	TERMINAL
TM202	073-0778-90	TERMINAL
TM305	073-0778-90	TERMINAL
TM401	073-0768-90	TERMINAL
VR160	012-4318-59	47KB
VR161	012-4318-59	47KB
VR162	012-4318-56	10KB
X152	061-3013-00	4.33MHz
X153	061-1066-00	7.2MHz
X302	061-3537-90	41.6MHz
X401	061-3541-90	10MHz
PWB	039-2560-01	PWB(WITHOUT COMPONENT)

PN-2702B-A (Difference from PN-2701B-A.)

REF No.	PART No.	DESCRIPTION
C133	----------	NO USED
C134	----------	NO USED
C135	168-6832-78	16V 0.068uF
C138	168-6832-78	16V 0.068uF
C152	----------	NO USED
C166	----------	NO USED
C167	----------	NO USED
C179	----------	NO USED
C180	----------	NO USED
C185	168-2732-55	16V 0.027uF K
C186	168-2732-55	16V 0.027uF K
C207	----------	NO USED

REF No.	PART No.	DESCRIPTION
C208	----------	NO USED
C209	----------	NO USED
C210	----------	NO USED
C334	----------	NO USED
IC153	----------	NO USED
L167	----------	NO USED
L201	----------	NO USED
L202	----------	NO USED
Q113	----------	NO USED
R121	119-7531-15	1/10W 75k ohm
R127	119-7531-15	1/10W 75k ohm
R142	----------	NO USED

REF No.	PART No.	DESCRIPTION
R143	----------	NO USED
R152	----------	NO USED
R167	----------	NO USED
R203	----------	NO USED
R208	----------	NO USED
R209	----------	NO USED
R374	----------	NO USED
R375	----------	NO USED
R571	119-0000-05	1/10W 0 ohm JW
R576	----------	NO USED

Sub PWB(B3) section

REF No.	PART No.	DESCRIPTION
C820	043-0548-50	10V 2.2uF
C821	043-0548-50	10V 2.2uF
C822	043-0548-50	10V 2.2uF
C823	043-0548-50	10V 2.2uF
C824	168-2232-55	0.022uF K
C825	168-1022-55	1000pF K
C826	168-1022-55	1000pF K
C827	168-1022-55	1000pF K
C828	168-1022-55	1000pF K

REF No.	PART No.	DESCRIPTION
C829	168-2222-55	2200pF K
C830	168-2222-55	2200pF K
C831	168-1022-55	1000pF K
C832	168-1022-55	1000pF K
C833	168-1022-55	1000pF K
C834	168-1022-55	1000pF K
D820	001-0529-44	MA8082-M
D821	001-0584-33	MA8200
D822	001-0584-33	MA8200

REF No.	PART No.	DESCRIPTION
D823	001-4305-39	UDZSTE-17 36B
D824	001-0516-90	MA111
D825	001-0516-90	MA111
D826	001-0516-90	MA111
J820	074-1013-00	12P
J821	074-0898-20	20P
L801	010-3105-62	1k ohm/100MHz
L802	010-3105-62	1k ohm/100MHz
L803	010-3105-62	1k ohm/100MHz

REF No.	PART No.	DESCRIPTION
L804	010-3105-62	1k ohm/100MHz
Q802	125-9017-92	UMD3N
Q803	125-9017-92	UMD3N
Q820	192-4116-00	2SC4116
Q823	192-4116-00	2SC4116
Q824	192-4116-00	2SC4116
Q825	192-4116-00	2SC4116
Q826	125-0020-91	UN5111
Q829	125-2026-91	UN5211
R820	119-3011-15	1/10W 300 ohm
R821	119-3011-15	1/10W 300 ohm

REF No.	PART No.	DESCRIPTION
R822	119-1021-15	1/10W 1k ohm
R823	119-5621-15	1/10W 5.6k ohm
R824	119-5621-15	1/10W 5.6k ohm
R825	119-5621-15	1/10W 5.6k ohm
R826	119-5631-15	1/10W 56k ohm
R827	119-5631-15	1/10W 56k ohm
R828	119-5631-15	1/10W 56k ohm
R829	119-1031-15	1/10W 10k ohm
R830	119-1031-15	1/10W 10k ohm
R831	119-1031-15	1/10W 10k ohm
R832	116-8211-15	1/4W 820 ohm

REF No.	PART No.	DESCRIPTION
R833	116-8211-15	1/4W 820 ohm
R834	116-8211-15	1/4W 820 ohm
R835	116-8211-15	1/4W 820 ohm
R836	119-5631-15	1/10W 56k ohm
R837	119-1031-15	1/10W 10k ohm
R840	119-2231-15	1/10W 22k ohm
R841	119-4731-15	1/10W 47k ohm
R842	119-4731-15	1/10W 47k ohm
PWB	039-2559-00	PWB(WITHOUT COMPONENT)

CD changer mechanism section

CD PWB section(B4)

REF No.	PART No.	DESCRIPTION
C1	168-4735-56	0.047uF Z
C2	168-4735-56	0.047uF Z
C4	168-1222-55	1200pF K
C5	163-2263-35	16V22uF
C6	168-1222-55	1200pF K
C12	168-1222-55	1200pF K
C15	168-1222-55	1200pF K
C16	163-2263-35	16V22uF
C18	168-1045-56	0.1uF Z
C19	166-1011-50	100pF CH
C21	168-1032-55	0.01uF K
C22	168-1045-56	0.1uF Z
C23	168-1045-56	0.1uF Z
C24	168-1032-55	0.01uF K
C25	163-1073-15	6.3V100uF
C26	178-1052-78	1uF
C27	168-1045-56	0.1uF Z
C28	042-0671-01	10V 47uF TA
C29	168-1045-56	0.1uF Z
C30	178-3342-78	0.33uF
C31	042-1673-00	10V 220uF
CCT4	050-0140-55	1/32W 2.2k ohmx4J
CCT5	050-0145-54	1/16W 47k ohm x4
CCT6	050-0145-53	1/16W 220k ohm x4J
D2	001-2610-90	RB480KTL
IC2	051-5445-08	BD5227G-TR

REF No.	PART No.	DESCRIPTION
IC3	052-5061-01	M30621MCM-4S5GP
IC4	051-9402-78	BR93L56RFVM-W
IC5	051-3332-90	NJU7222U33
IC6	051-3293-90	BA033SFP-E2
J1	074-1189-95	45P
J3	074-1237-70	20P
P1	076-0478-55	PLUG
Q3	190-1162-00	2SA1162
Q4	198-3018-00	2SK3018
Q5	131-1188-50	2SB1188PQR
Q6	198-3018-00	2SK3018
Q7	125-2004-92	RN1402
Q8	125-2004-92	RN1402
Q9	125-0014-92	DTA114EK
Q53	193-0601-00	2SD601A
R2	119-2211-15	1/10W 220 ohm
R4	119-4731-15	1/10W 47k ohm
R8	119-4731-15	1/10W 47k ohm
R10	119-2211-15	1/10W 220 ohm
R13	119-1041-15	1/10W 100k ohm
R14	119-2221-15	1/10W 2.2k ohm
R15	119-1041-15	1/10W 100k ohm
R16	119-1021-15	1/10W 1k ohm
R20	119-4731-15	1/10W 47k ohm
R24	119-4731-15	1/10W 47k ohm
R25	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R26	119-4721-15	1/10W 4.7k ohm
R27	119-1031-15	1/10W 10k ohm
R28	119-1041-15	1/10W 100k ohm
R29	119-1041-15	1/10W 100k ohm
R31	119-4731-15	1/10W 47k ohm
R32	119-0000-05	1/10W 0 ohm JW
R35	119-0000-05	1/10W 0 ohm JW
R36	119-4731-15	1/10W 47k ohm
R37	119-4731-15	1/10W 47k ohm
R38	119-2231-15	1/10W 22k ohm
R39	119-2231-15	1/10W 22k ohm
R40	119-2231-15	1/10W 22k ohm
R41	119-4711-15	1/10W 470 ohm
R42	119-2231-15	1/10W 22k ohm
R43	119-2241-15	1/10W 220k ohm
R60	119-0000-05	1/10W 0 ohm JW
R530	119-4731-15	1/10W 47k ohm
R550	119-4731-15	1/10W 47k ohm
TM1	073-0768-90	TERMINAL
TM2	073-0766-90	TERMINAL
TM4	073-0766-90	TERMINAL
TM5	073-0766-90	TERMINAL
X1	060-1533-90	CSTCE10M0G52-R0
PWB	039-2532-20	PWB(WITHOUT COMPONENT)

DPS PWB section(B5)

REF No.	PART No.	DESCRIPTION
C1	042-0671-01	10V 47uF TA
C2	168-4735-56	0.047uF Z
C3	046-4722-58	4700pF
C4	046-1032-78	0.01uF
C5	168-1045-56	0.1uF Z
C6	042-0671-01	10V 47uF TA
C7	168-1045-56	0.1uF Z
C8	168-1045-56	0.1uF Z
C9	045-1007-50	10pF
C10	168-1045-56	0.1uF Z
C11	045-1007-50	10pF
C12	168-1045-56	0.1uF Z
C13	042-0672-00	25V 47uF TA
C14	168-4735-56	0.047uF Z
C15	168-4735-56	0.047uF Z
C16	168-4735-56	0.047uF Z
C17	178-1052-78	1uF
C18	045-4701-50	47pF
C19	168-1045-56	0.1uF Z
C20	046-4712-58	470pF
C21	046-4712-58	470pF
C22	168-1045-56	0.1uF Z
C23	046-1532-78	0.015uF
C24	168-1045-56	0.1uF Z
C25	046-6822-58	6800pF
C26	046-1032-78	0.01uF
C28	046-1022-58	1000pF
C29	046-3332-78	0.033uF

REF No.	PART No.	DESCRIPTION
C32	046-4722-58	4700pF
C33	046-1522-58	1500pF
C34	168-1045-56	0.1uF Z
C35	046-1532-78	0.015uF
C36	168-1045-56	0.1uF Z
C37	168-1045-56	0.1uF Z
C38	042-0671-01	10V 47uF TA
C39	178-1052-78	1uF
C40	045-6801-50	68pF
C41	168-1045-56	0.1uF Z
C42	178-1052-78	1uF
C43	042-0671-01	10V 47uF TA
C44	046-6812-58	680pF
C45	168-1045-56	0.1uF Z
C46	168-1045-56	0.1uF Z
C47	042-0671-01	10V 47uF TA
C48	168-5632-78	16V 0.056uF
C49	168-1045-56	0.1uF Z
C50	168-1045-56	0.1uF Z
C51	168-1045-56	0.1uF Z
C53	168-1045-56	0.1uF Z
C54	042-0671-01	10V 47uF TA
C56	168-4712-55	470pF K
C57	046-1032-78	0.01uF
C58	168-4712-55	470pF K
C59	168-1045-56	0.1uF Z
C60	168-1045-56	0.1uF Z
C61	046-1032-78	0.01uF

REF No.	PART No.	DESCRIPTION
C62	042-0671-01	10V 47uF TA
C63	046-1032-78	0.01uF
C64	168-1045-56	0.1uF Z
C65	045-1201-50	12pF
C66	046-1032-78	0.01uF
C67	046-1032-78	0.01uF
C68	168-1045-56	0.1uF Z
C69	045-1201-50	12pF
C101	046-1032-78	0.01uF
C102	046-1032-78	0.01uF
CCT1	050-0140-68	1/32W 3.3k ohm x4J
CCT4	050-0140-63	1/32W 47k ohm x4J
D1	001-0367-91	1SS226
D2	001-2610-90	RB480KTL
IC2	051-6399-00	TC94A15F
IC3	051-6060-08	BD7961FM-E2
IC4	051-7518-18	SN74LVC139APWR
IC5	052-5062-03	MBM29DL800BA-90PFTN
IC6	051-7518-18	SN74LVC139APWR
IC7	051-9330-00	K4S641632F-TC60
IC8	051-7203-48	SN74LV74APW
IC9	051-6700-00	TMS320DA140 PGE160
IC10	051-3315-90	TPS76316DBVR
IC11	051-7221-58	SN74AHC1G04 HDCKR

REF No.	PART No.	DESCRIPTION
IC12	051-7525-08	SN74LVC2GU04 DCKR
IC13	051-7526-08	SN74LVC1G126 DCKR
J1	074-1201-65	15P
J2	074-1138-56	6P
J3	074-1059-76	26P
J4	074-1189-95	45P
J5	074-1201-60	10P
L2	010-3104-54	MPZ1608S601AT
L3	010-3104-54	MPZ1608S601AT
Q1	131-1188-50	2SB1188PQR
Q2	131-1188-50	2SB1188PQR
Q3	125-2004-92	RN1402
R1	033-1021-15	1/10W 1k ohm
R2	033-1021-15	1/10W 1k ohm
R3	033-3311-15	1/10W 330 ohm
R4	033-2211-15	1/10W 220 ohm
R5	033-2211-15	1/10W 220 ohm
R6	033-1021-15	1/10W 1k ohm
R7	033-1051-15	1/10W 1M ohm
R8	033-0000-05	1/10W 0 ohm
R10	033-5621-15	1/10W 5.6k ohm
R11	033-4731-15	1/10W 47k ohm
R12	119-3341-15	1/10W 330k ohm
R13	033-2231-15	1/10W 22k ohm
R14	033-2231-15	1/10W 22k ohm
R15	117-1001-15	1/8W 10 ohm

REF No.	PART No.	DESCRIPTION
R16	033-5631-15	1/10W 56k ohm
R17	033-3331-15	1/10W 33k ohm
R18	033-6831-15	1/10W 68k ohm
R19	033-6831-15	1/10W 68k ohm
R20	033-1011-15	1/10W 100 ohm
R21	116-4711-15	1/4W 470 ohm
R22	117-1811-15	1/8W 180 ohm
R23	116-4711-15	1/4W 470 ohm
R24	033-2231-15	1/10W 22k ohm
R25	033-2231-15	1/10W 22k ohm
R26	033-2231-15	1/10W 22k ohm
R27	033-1011-15	1/10W 100 ohm
R28	033-4731-15	1/10W 47k ohm
R29	033-2231-15	1/10W 22k ohm
R30	033-4721-15	1/10W 4.7k ohm
R31	033-4721-15	1/10W 4.7k ohm
R32	033-4731-15	1/10W 47k ohm
R33	033-4731-15	1/10W 47k ohm
R35	033-4731-15	1/10W 47k ohm
R36	033-3311-15	1/10W 330 ohm
R37	033-4731-15	1/10W 47k ohm
R38	033-3311-15	1/10W 330 ohm
R39	033-2211-15	1/10W 220 ohm
R40	033-1011-15	1/10W 100 ohm
R41	033-1001-15	1/10W 10 ohm
R42	033-1001-15	1/10W 10 ohm
R45	033-1011-15	1/10W 100 ohm
R46	033-4731-15	1/10W 47k ohm

REF No.	PART No.	DESCRIPTION
R47	033-4731-15	1/10W 47k ohm
R48	033-1011-15	1/10W 100 ohm
R49	033-0000-05	1/10W 0 ohm
R50	033-0000-05	1/10W 0 ohm
R51	033-8231-15	1/10W 82k ohm
R52	033-0000-05	1/10W 0 ohm
R53	033-4731-15	1/10W 47k ohm
R63	033-2231-15	1/10W 22k ohm
R64	033-2231-15	1/10W 22k ohm
R65	033-4731-15	1/10W 47k ohm
R66	033-4731-15	1/10W 47k ohm
R100	033-1011-15	1/10W 100 ohm
R101	033-1011-15	1/10W 100 ohm
R102	033-1011-15	1/10W 100 ohm
R103	033-1011-15	1/10W 100 ohm
R104	033-1011-15	1/10W 100 ohm
R105	033-1011-15	1/10W 100 ohm
R106	033-1011-15	1/10W 100 ohm
R107	033-4731-15	1/10W 47k ohm
R200	033-1051-15	1/10W 1M ohm
R201	033-1021-15	1/10W 1k ohm
R202	033-1021-15	1/10W 1k ohm
R220	033-4731-15	1/10W 47k ohm
R301	119-2231-15	1/10W 22k ohm
R302	119-3911-15	1/10W 390 ohm
X1	061-3534-90	16.92MHz
PWB	039-2531-20	PWB(WITHOUT COMPONENT)

Sensor PWB sction(B6)

REF No.	PART No.	DESCRIPTION
PT3	060-0252-01	PT4850F
PT4	060-0252-01	PT4850F
PT5	060-0252-01	PT4850F
PT6	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
S1	013-7414-50	SPVG22
PWB	039-1956-00	PWB(WITHOUT COMPONET)

PIM-FPC section(B7)

REF No.	PART No.	DESCRIPTION
IC5	051-5806-02	GPIS95

Driver PWB section(B8)

REF No.	PART No.	DESCRIPTION
C1	168-1045-56	0.1uF
C2	163-1073-35	16V100uF
D1	001-0529-32	MA8056-M
IC1	051-6044-18	BA6920FP-Y
J1	074-1239-76	26P
J2	074-1100-59	9P

REF No.	PART No.	DESCRIPTION
R1	033-1021-15	1/10W 1k ohm
R2	032-0104-59	1/4W 2.2 ohm
R3	032-0104-59	1/4W 2.2 ohm
S1	013-7412-50	SPVG21
PWB	039-2242-00	PWB(WITHOUT COMPONET)

PIV-FPC section(B9)

REF No.	PART No.	DESCRIPTION
IC6	051-5806-01	GPIS93

LED-L-PWB section(B10)

REF No.	PART No.	DESCRIPTION
LED3	001-7042-00	GL4800
LED4	001-7042-00	GL4800
PWB	039-1954-20	PWB(WITHOUT COMPONET)

LED-R-PWB section(B11)

REF No.	PART No.	DESCRIPTION
LED5	001-7042-00	GL4800
LED6	001-7042-00	GL4800
PWB	039-1955-20	PWB(WITHOUT COMPONET)

L-Motor-FPC section(B12)

REF No.	PART No.	DESCRIPTION
M1	SMA-186-100	LOADING

M/S-FPC section(B13)

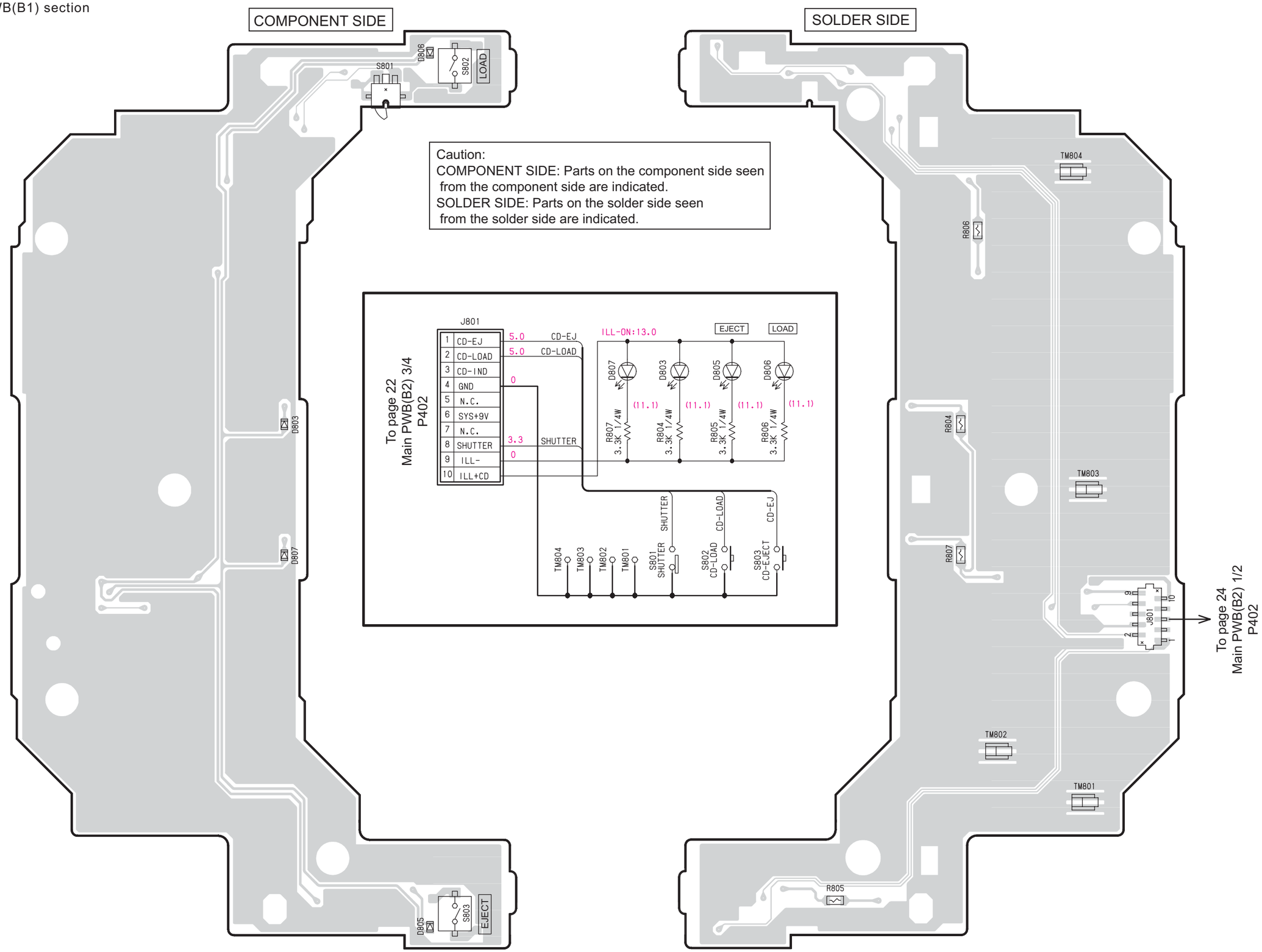
REF No.	PART No.	DESCRIPTION
M2	SMA-185-102	SPINDLE
M3	SMA-191-100	SLED
S2	013-7414-50	SPVG22

CIRCUIT DIAGRAM 1/10
PRINTED WIRING BOARD 1/6
Switch PWB(B1) section

COMPONENT SIDE

SOLDER SIDE

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.



PN-2701B-A
PN-2702B-A

CIRCUIT DIAGRAM 2/10

Main PWB(B2) section 1/4

No.	Description	No.	Description
A	ANT +B	1	ANT +B
B	MAIN ANT	2	M-GND
		3	MAIN
		4	M-GND
C	SUB ANT	5	S-GND
		6	SUB
		7	S-GND

	PN2701BA	PN2702BA
C185, C186	0.056	0.027
C135, C138	0.056	0.068
R121, R127	56K	75K

J201
TH12HW (TEL)

No.	Description
h11	N.C.
h12	TEL VOICE+ (*1)
h13	TEL VOICE- (*1)
h14	N.C.
h15	N.C.
h16	N.C.
h17	N.C.
h18	N.C.
h19	TEL VOICE GND
h20	N.C.
h21	N.C.
h22	N.C.

*1 : PN-2702B-A is not connected.

To page 23 Main PWB(B2) 4/4

To page 22 Main PWB(B2) 3/4

To page 21 Main PWB(B2) 2/4

To page 23 Main PWB(B2) 4/4

CIRCUIT DIAGRAM 3/10

Main PWB(B2) section 2/4

J250
TH08HW
(Audio-BUS/MCAN)

No.	Description
h01	AUDIO BUS L+
h02	AUDIO BUS R+
h03	M CAN H
h04	M CAN L
h05	AUDIO BUS L-
h06	AUDIO BUS R-
h07	AUDIO BUS GND
h08	N.C.

To page 20
Main PWB(B2) 1/4

To page 22
Main PWB(B2) 3/4

To page 26
Sub PWB(B3)
J821

To page 23
Main PWB(B2) 4/4

To page 22
Main PWB(B2) 3/4

To page 23
Main PWB(B2) 4/4

DSP
IC301
SAF7730H/N114F

IBOC-DSP-CONE
TUNER-DSP-I/O-FLAG
AUDIO-DSP-I/O-FLAG
IBOC-FLAG
I2C-TUNER
DICE2-CONNE
OSC
TUNER
ANALOG-IN
RAM-LOAD
I2C
REG
I2S
RDS-DEC
20KHZ-LPF
1.8V-REG

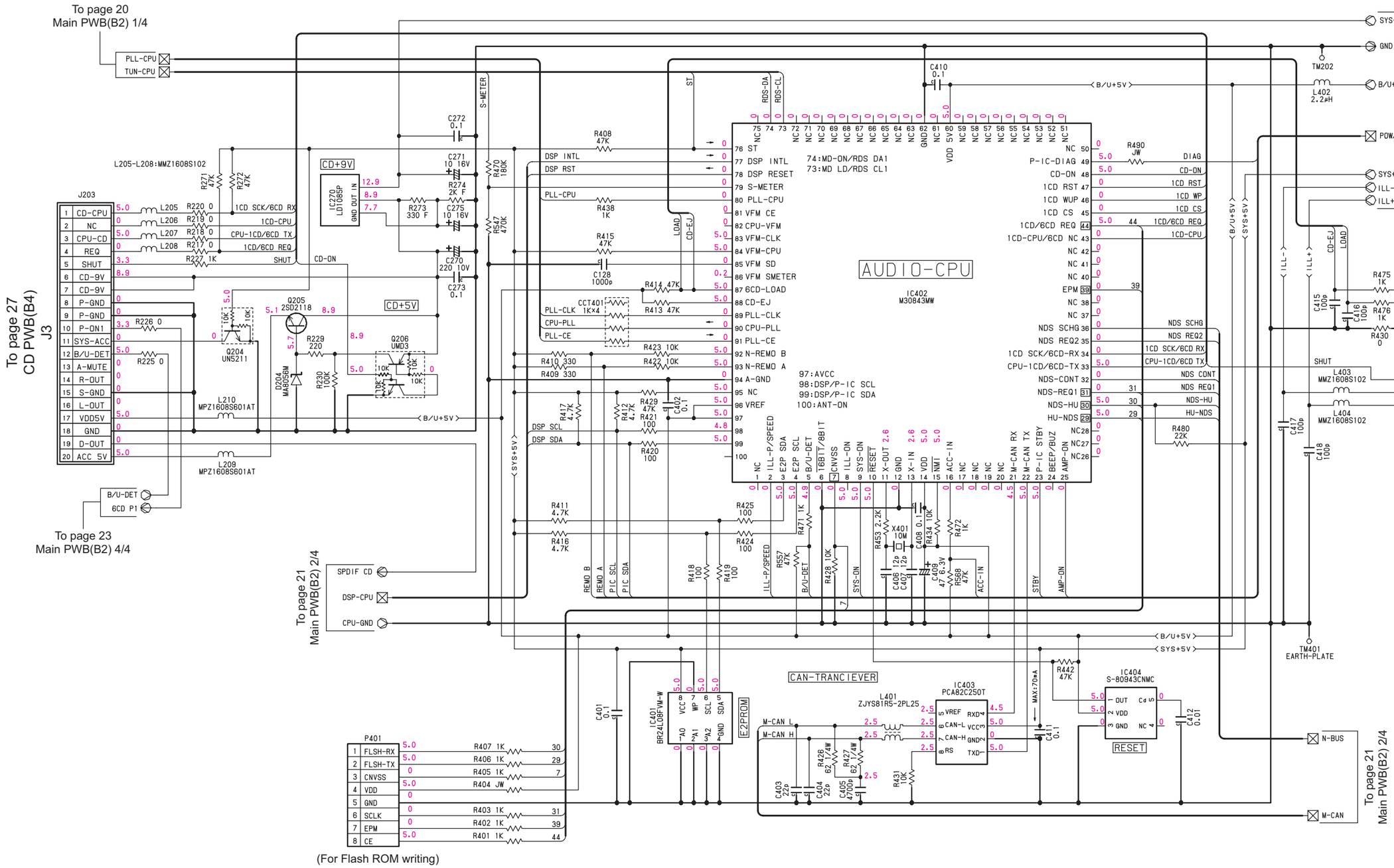
P201

1	GND	
2	S-CHG	NDS SCHG
3	GND	
4	NDS-REQ2	NDS REQ2
5	NDS-CONT	NDS CONT
6	NDS-REQ	NDS REQ1
7	CHG-HU	NDS-HU
8	HU-CHG	HU-NDS
9	A/C-L+	A/C L+
10	A/C-L-	A/C L-
11	A/C-R+	A/C R+
12	A/C-R-	A/C R-
13	NC	
14	SYS+5V	
15	GND	
16	GND	
17	NC	
18	SYS+9V	
19	NC	
20	1/2SYS+9V	

PN-2701B-A
PN-2702B-A

CIRCUIT DIAGRAM 4/10

Main PWB(B2) section 3/4



PN-2701B-A
PN-2702B-A

CIRCUIT DIAGRAM 5/10

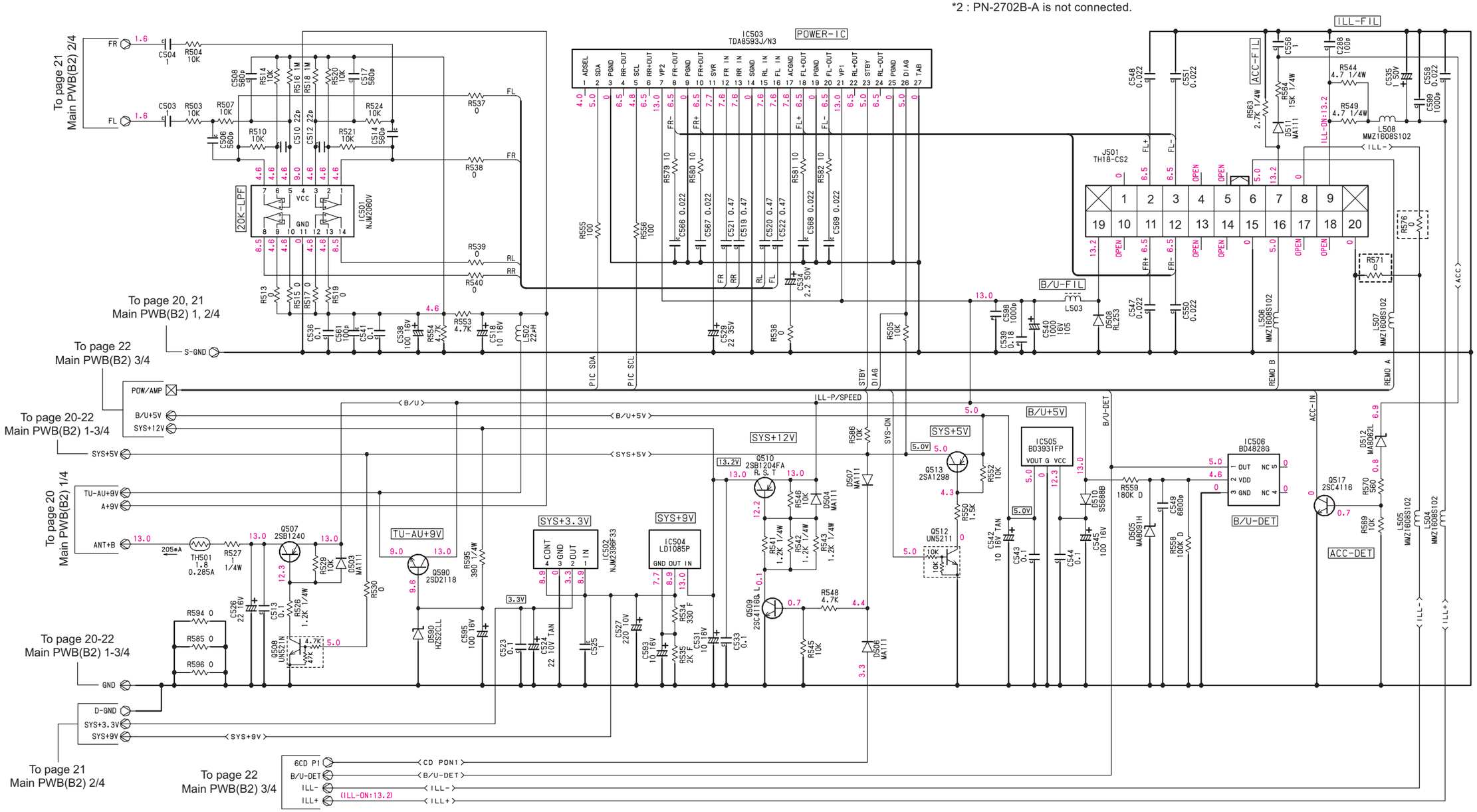
Main PWB(B2) section 4/4

J501
TH18HW-CS2
(Power/SP/STRG-Remo)

No.	Description	No.	Description
1	N.C.	11	FR R+
2	FR L+	12	FR R-
3	FR L-	13	N.C.
4	RR L+	14	N.C.
5	RR L-	15	STRG SW GND
6	STRG SW A	16	STRG SW B
7	ACC	17	N.C.
8	ILL CONT (*2)	18	N.C.
9	ILL	19	B/U
10	N.C.	20	GND

*2 : PN-2702B-A is not connected.

	PN2701BA	PN2702BA
R571	NO USED	0ohm JW
R576	0ohm JW	NO USED



PN-2701B-A
PN-2702B-A

PRINTED WIRING BOARD 2/6

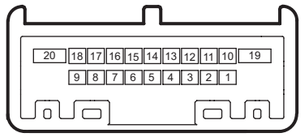
Main PWB(B2) section 1/2
Component side

No.	Description	No.	Description
1	N.C.	11	FR R+
2	FR L+	12	FR R-
3	FR L-	13	RR R+
4	RR L+	14	RR R-
5	RR L-	15	STRG SW GND
6	STRG SW A	16	STRG SW B
7	ACC	17	N.C.
8	ILL CONT(*2)	18	N.C.
9	ILL	19	B/U
10	N.C.	20	GND

*2 : PN-2702B-A is not connected.

	PN2701BA	PN2702BA
R571	NO USED	0ohm JW
R576	0ohm JW	NO USED

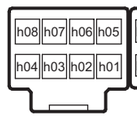
J501
TH18HW-CS2
(Power/SP/STRG-Remo)



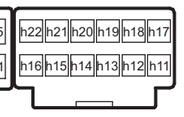
No.	Description	No.	Description
h01	AUDIO BUS L+	h11	N.C.
h02	AUDIO BUS R+	h12	TEL VOICE+(*1)
h03	M CAN H	h13	TEL VOICE-(*1)
h04	M CAN L	h14	N.C.
h05	AUDIO BUS L-	h15	N.C.
h06	AUDIO BUS R-	h16	N.C.
h07	AUDIO BUS GND	h17	N.C.
h08	N.C.	h18	N..C
		h19	TEL VOICE GND
		h20	N.C.
		h21	N.C.
		h22	N.C.

*1 : PN-2702B-A is not connected.

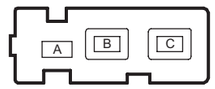
J250
TH08HW
(Audio-BUS/MCAN)



J201
TH12HW
(TEL)

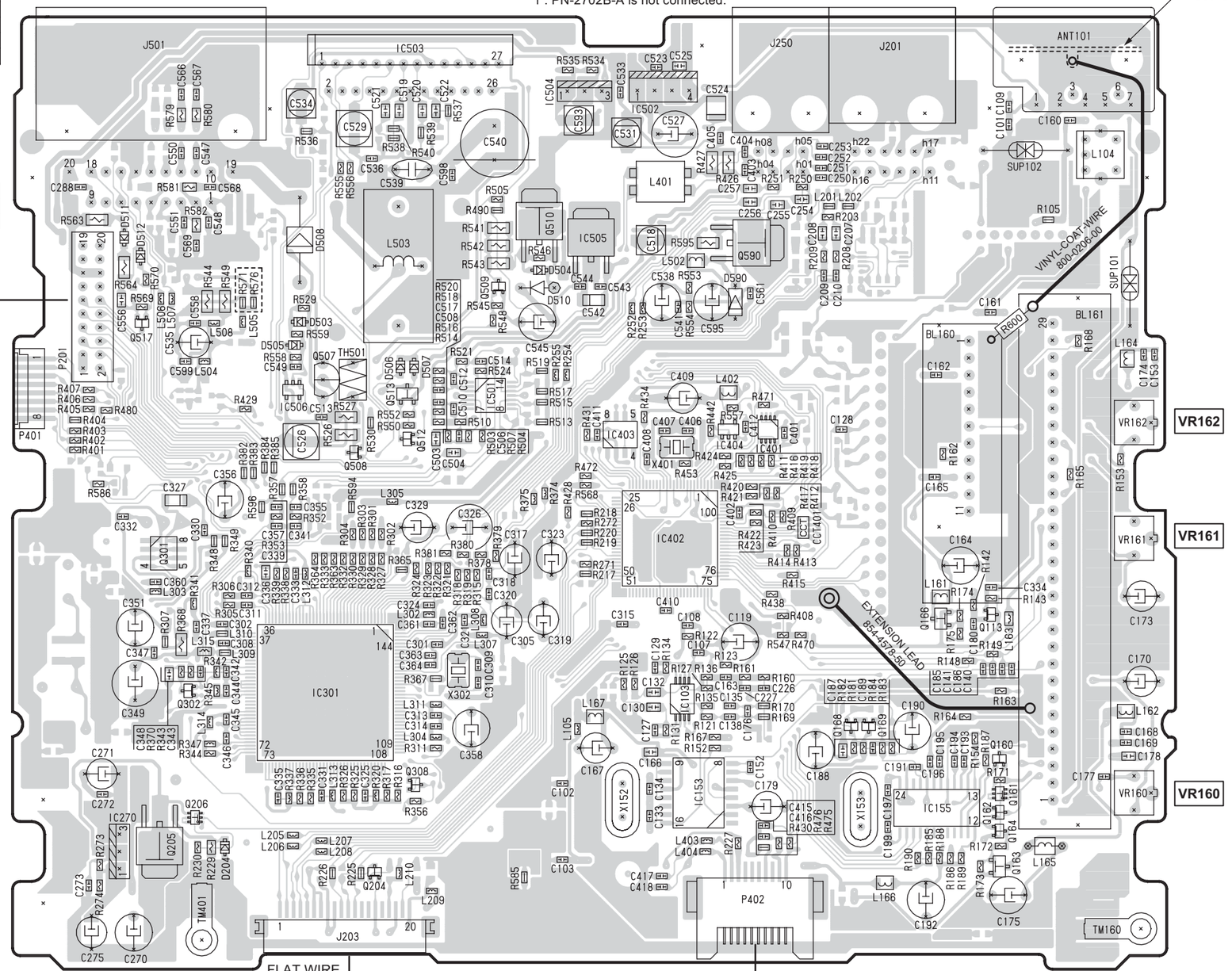


ANT101
GT-13SHA
(ANT-IN)



No.	Description	No.	Description
A	ANT +B	1	ANT +B
B	MAIN ANT	2	M-GND
		3	MAIN
		4	M-GND
C	SUB ANT	5	S-GND
		6	SUB
		7	S-GND

REAR PLATE
307-0704-00



The following parts is not used in PN-2702B-A.

RBDS

C133, C134, C152, C166, C167
C179, C180, C334, IC153, L167
Q113, R142, R143, R152, R167

TEL

C207, C208, C209, C210, L201
L202, R203, R208, R209,R374
R375

(Reffer to page 20
CIRCUIT DIAGRAM 2/10
Main PWB(B2) section 1/4)

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

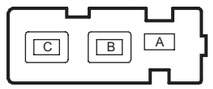
PN-2701B-A
PN-2702B-A

PRINTED WIRING BOARD 3/6

Main PWB(B2) section 2/2
Solder side

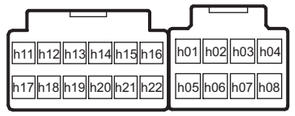
No.	Description	No.	Description
A	ANT +B	1	ANT +B
B	MAIN ANT	2	M-GND
		3	MAIN
		4	M-GND
C	SUB ANT	5	S-GND
		6	SUB
		7	S-GND

ANT101
GT-13SHA
(ANT-IN)



J201
TH12HW
(TEL)

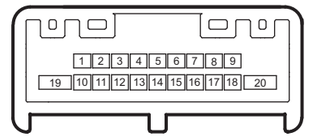
J250
TH08HW
(Audio-BUS/MCAN)



No.	Description	No.	Description
h11	N.C.	h01	AUDIO BUS L+
h12	TEL VOICE+(*1)	h02	AUDIO BUS R+
h13	TEL VOICE-(*1)	h03	M CAN H
h14	N.C.	h04	M CAN L
h15	N.C.	h05	AUDIO BUS L-
h16	N.C.	h06	AUDIO BUS R-
h17	N.C.	h07	AUDIO BUS GND
h18	N.C.	h08	N.C.
h19	TEL VOICE GND		
h20	N.C.		
h21	N.C.		
h22	N.C.		

*1 : PN-2702B-A is not connected.

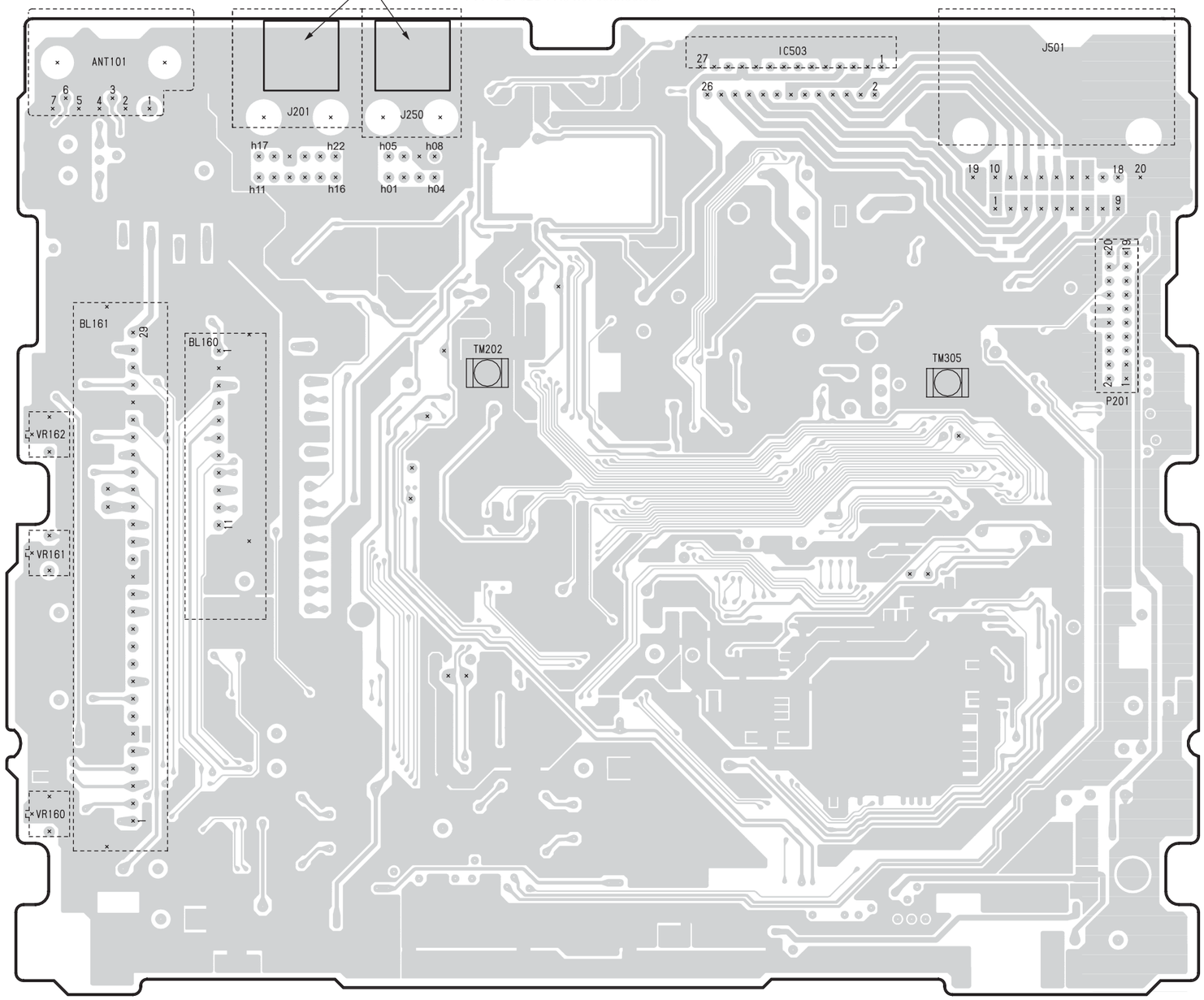
J501
TH18HW-CS2
(Power/SP/STRG-Remo)



No.	Description	No.	Description
1	N.C.	11	FR R+
2	FR L+	12	FR R-
3	FR L-	13	N.C.
4	RR L+	14	N.C.
5	RR L-	15	STRG SW GND
6	STRG SW A	16	STRG SW B
7	ACC	17	N.C.
8	ILL CONT(*2)	18	N.C.
9	ILL	19	B/U
10	N.C.	20	GND

*2 : PN-2702B-A is not connected.

RUBBER PART
345-8529-00



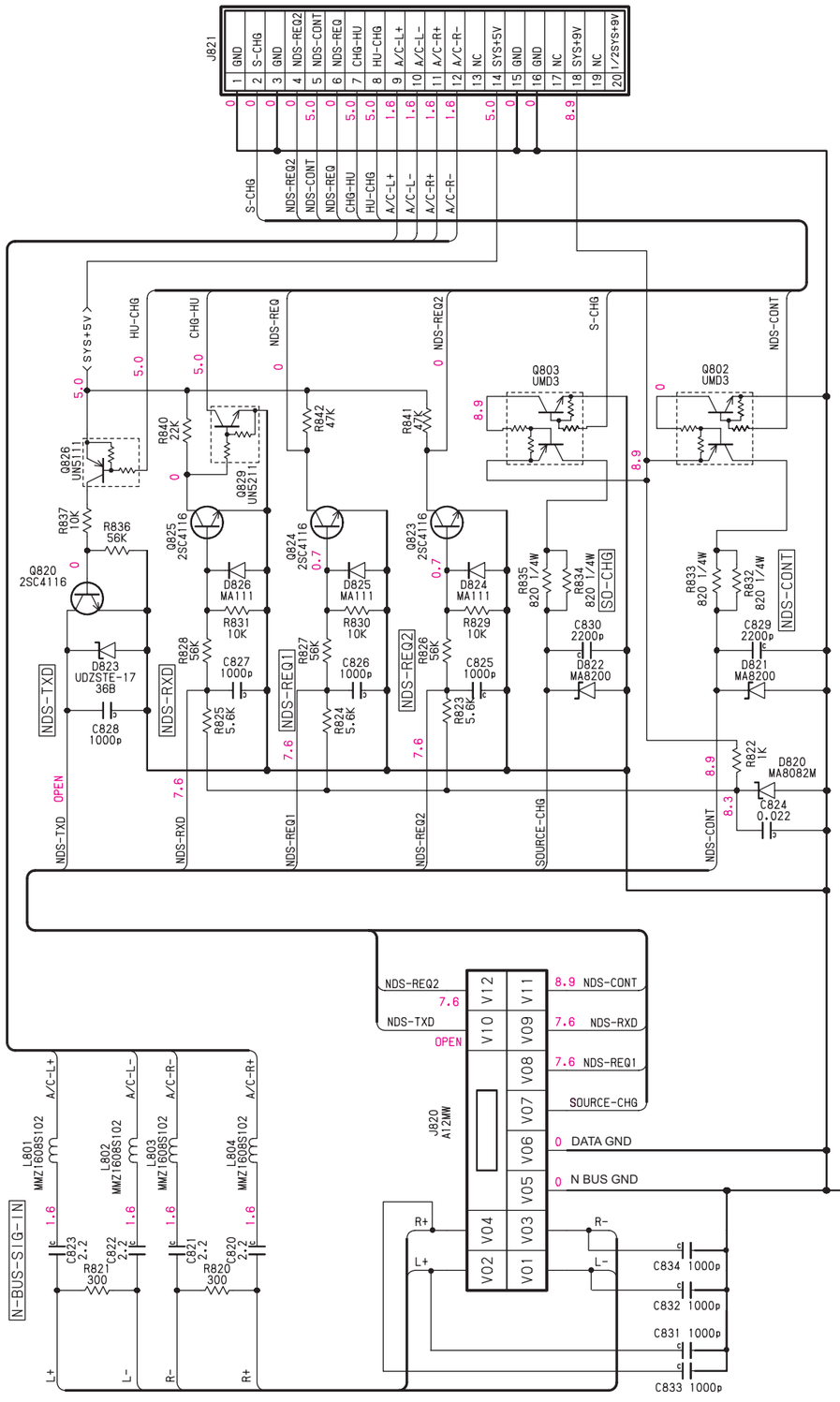
The parts of a dashed line express the parts on a component side.

Caution:
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

CIRCUIT DIAGRAM 6/10

Sub PWB(B3) section

To page 21
Main PWB(B2) 2/4
P201

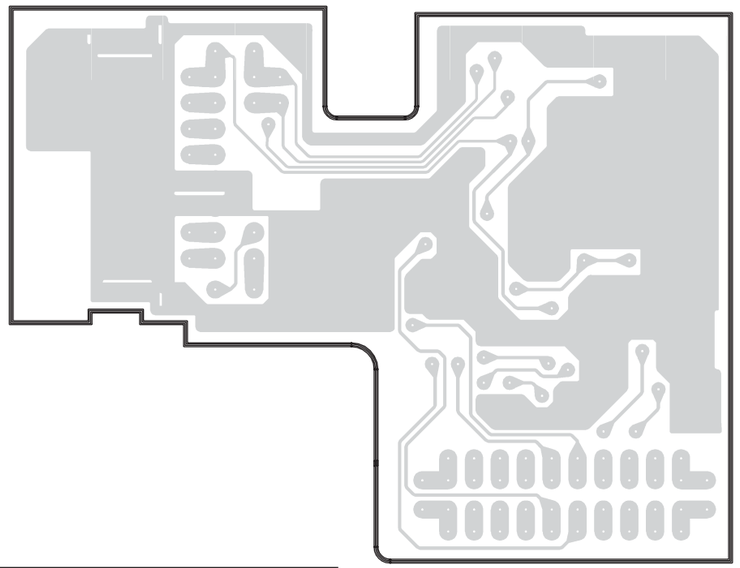


PN-2701B-A
PN-2702B-A

PRINTED WIRING BOARD 4/6

Sub PWB(B3) section

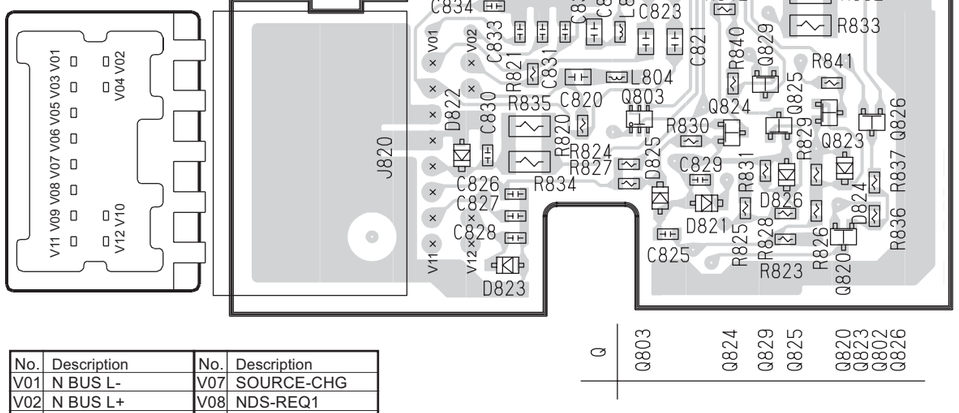
SOLDER SIDE



Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

To page 24
Main PWB(B2) 1/2
P201

A12MW
(N-BUS)

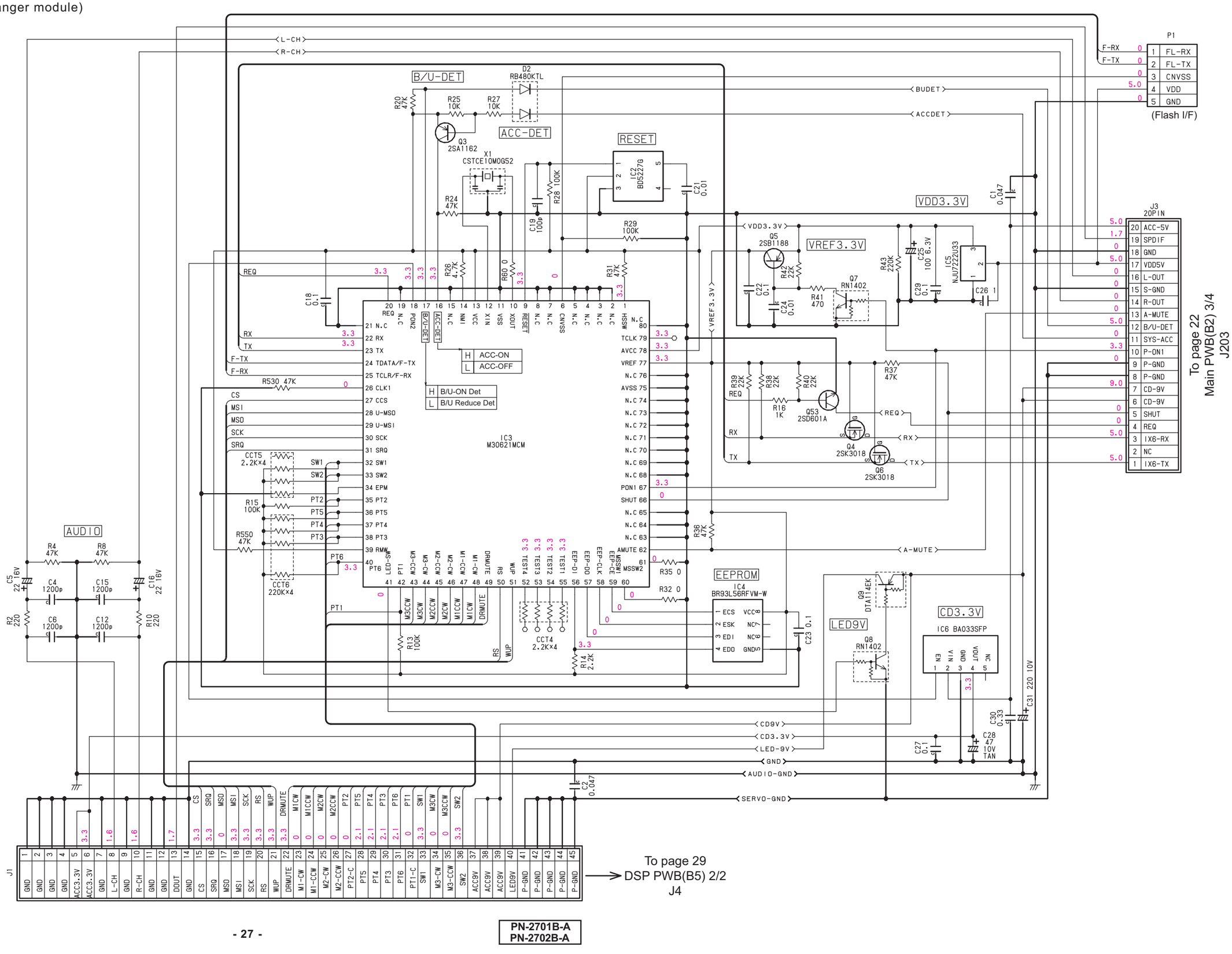


No.	Description	No.	Description
V01	N BUS L-	V07	SOURCE-CHG
V02	N BUS L+	V08	NDS-REQ1
V03	N BUS R-	V09	NDS-RXD
V04	N BUS R+	V10	NDS-TXD
V05	N BUS GND	V11	NDS CONT
V06	DATA GND	V12	NDS-REQ2

COMPONENT SIDE

CIRCUIT DIAGRAM 7/10

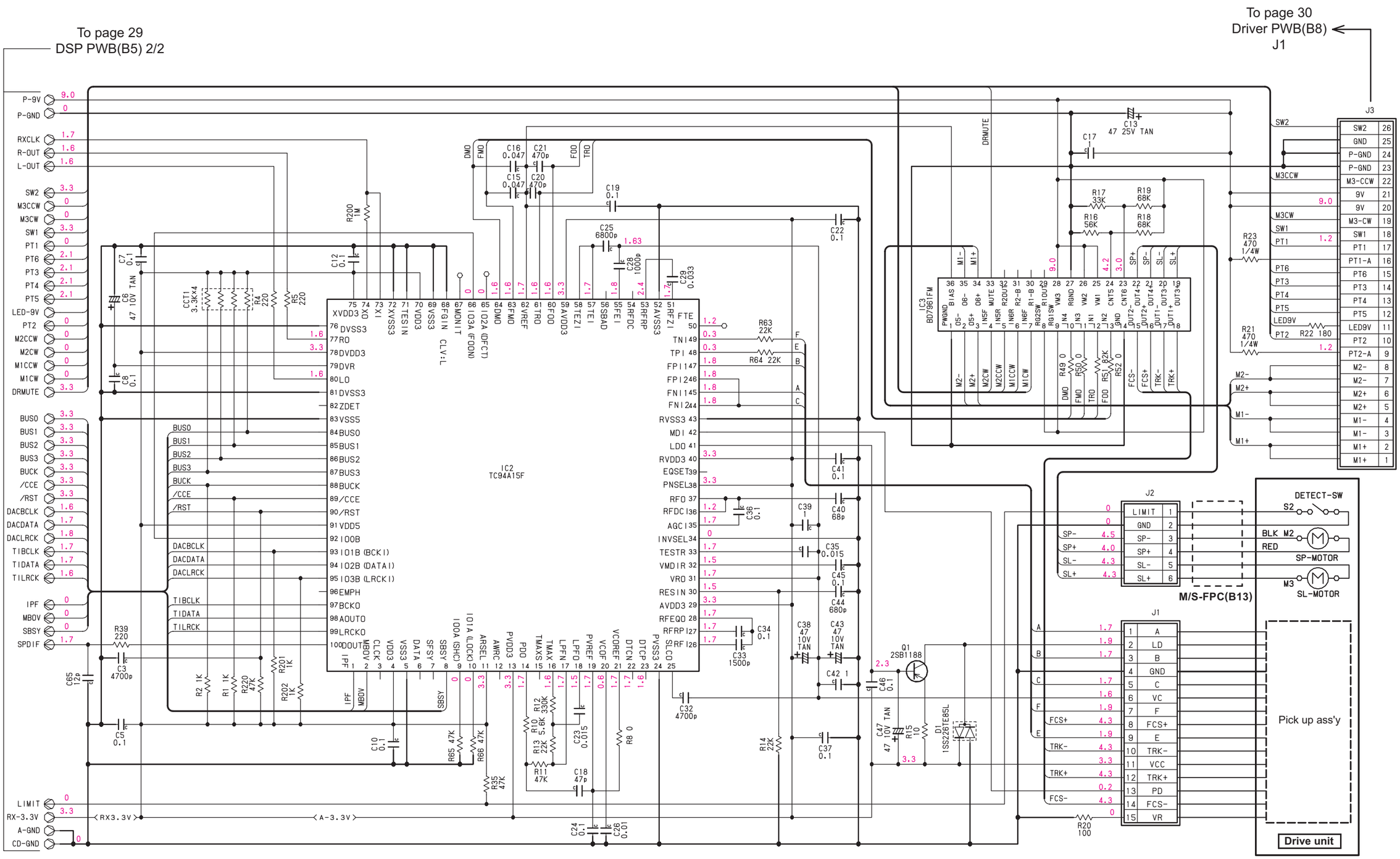
CD PWB(B4) section
(CD changer module)



PN-2701B-A
PN-2702B-A

CIRCUIT DIAGRAM 8/10

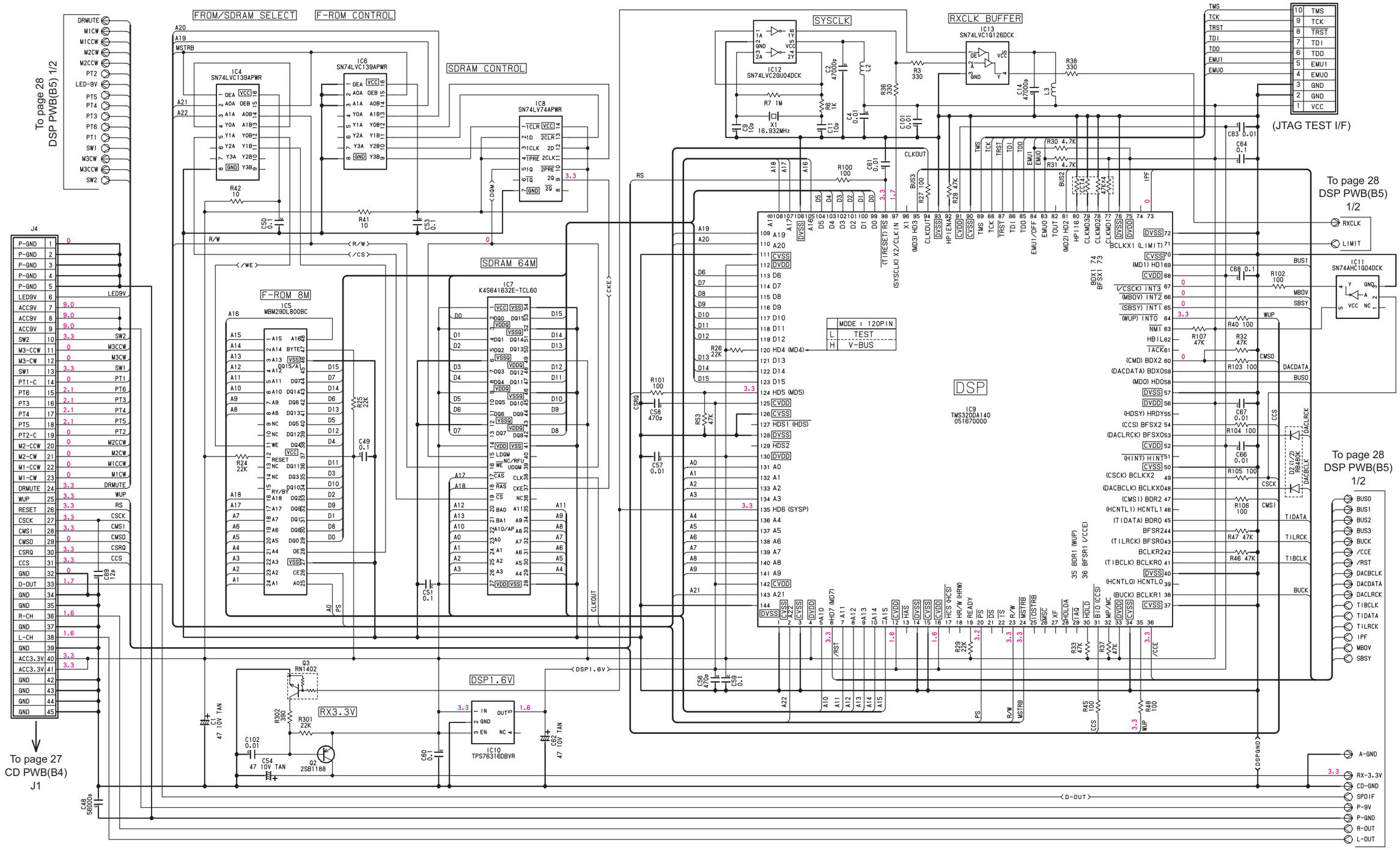
DSP PWB(B5) section 1/2
(CD changer mechanism)



PN-2701B-A
PN-2702B-A

CIRCUIT DIAGRAM 9/10

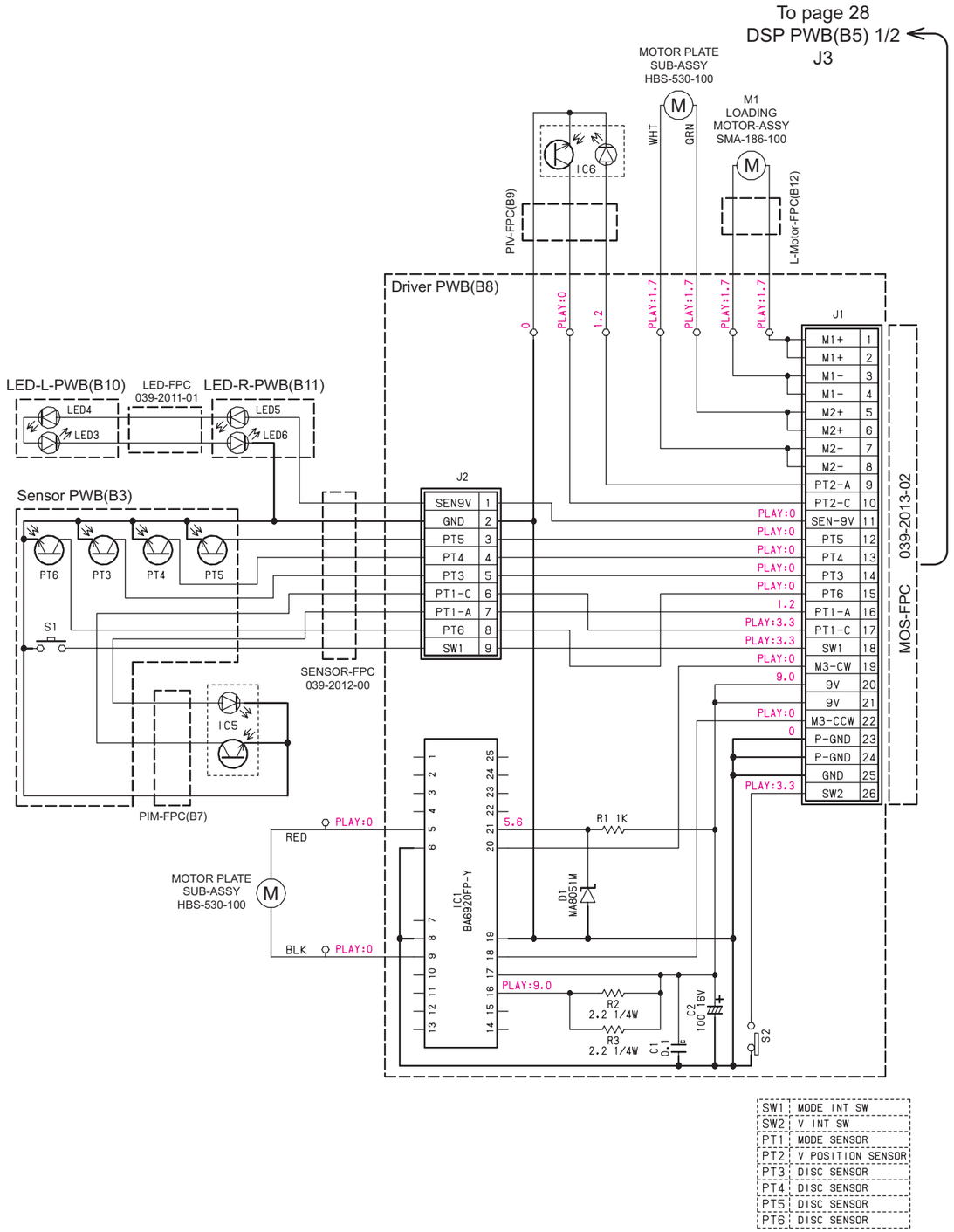
DSP PWB(B5) section 2/2
(CD changer mechanism)



PN-2701B-A
PN-2702B-A

CIRCUIT DIAGRAM 10/10

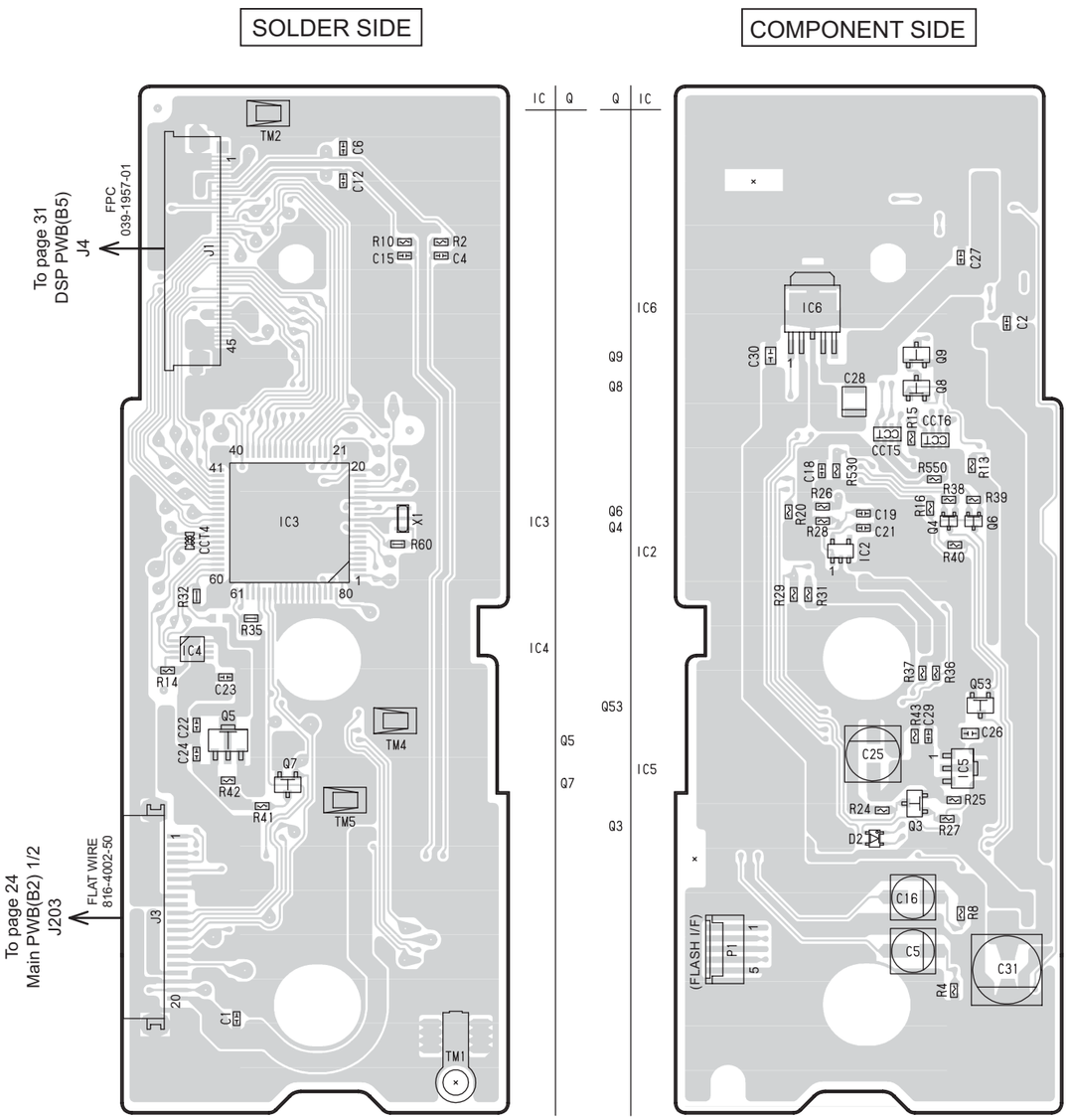
CD changer mechanism(B6-B12) section



SW1	MODE INT SW
SW2	V INT SW
PT1	MODE SENSOR
PT2	V POSITION SENSOR
PT3	DISC SENSOR
PT4	DISC SENSOR
PT5	DISC SENSOR
PT6	DISC SENSOR

PRINTED WIRING BOARD 5/6

CD PWB(B4) section
(CD changer module)

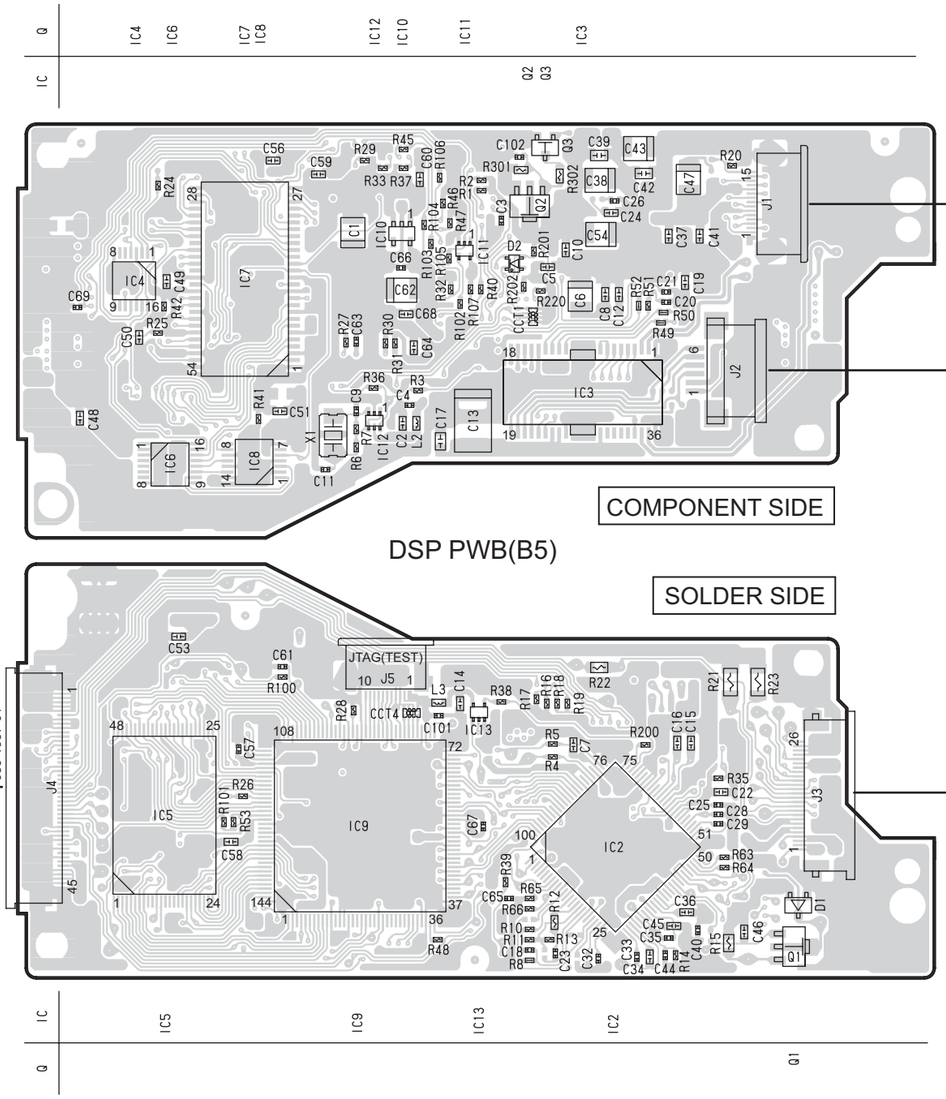


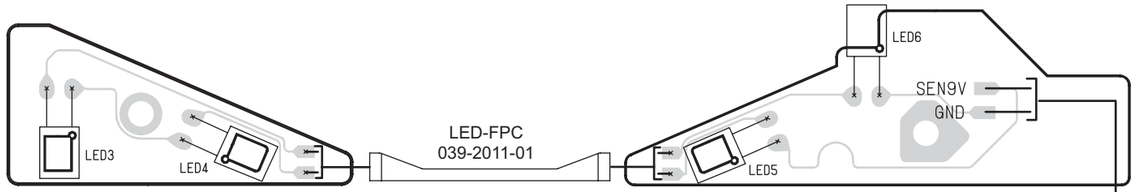
Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

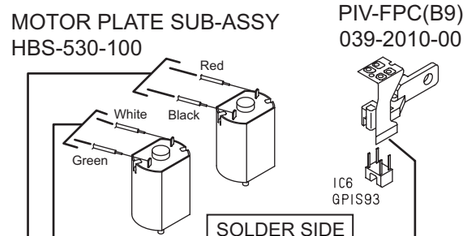
PN-2701B-A
PN-2702B-A

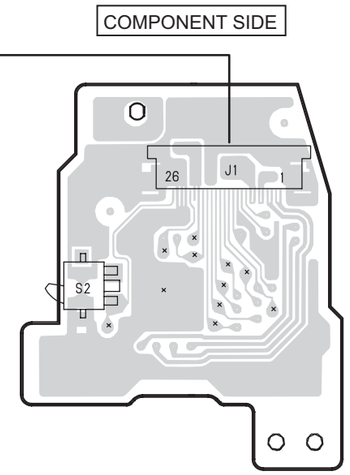
PRINTED WIRING BOARD 6/6

CD changer mechanism(B5-B13) section

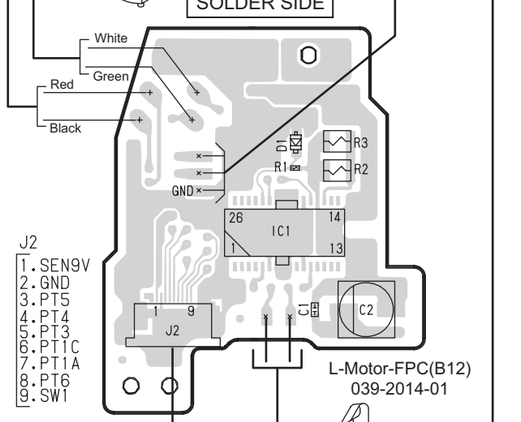


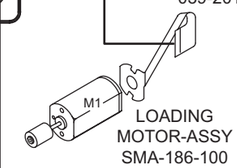






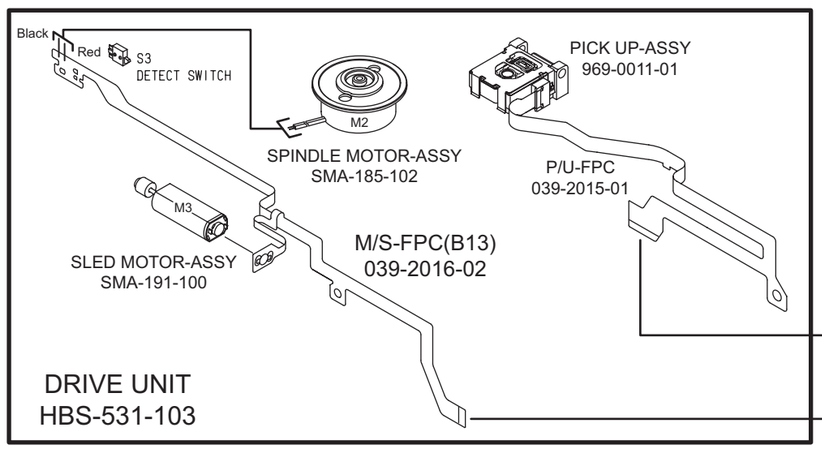
MOS-FPC
039-2013-02



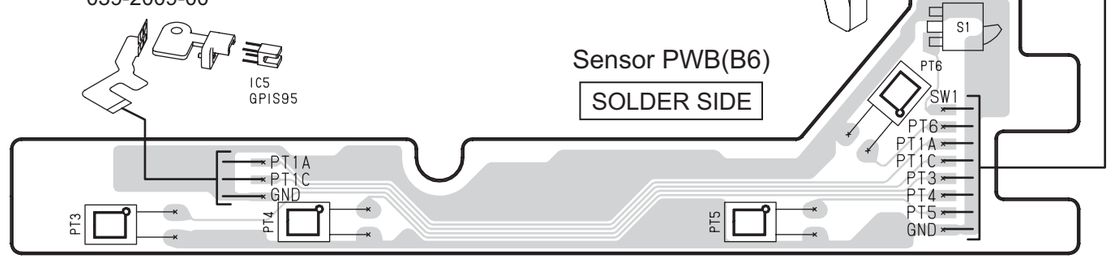


Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

SENSOR-FPC
039-2012-00



PIM-FPC(B7)
039-2009-00



PN-2701B-A
PN-2702B-A